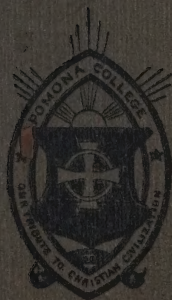


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CLAREMONT
CALIFORNIA

Thirty-Third Year

Pomona College

ANNUAL CATALOG

Register of officers and teachers for the year
1920-1921, requirements for admission,
description of courses and general
i n f o r m a t i o n .

+10

November, 1920
CLAREMONT, CALIFORNIA
Published by the College

37
 1920
 1921
 1922

1920	1921		1922
JULY	JANUARY	JULY	JANUARY
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COLLEGE CALENDAR

1920

September 20, Monday	{	Registration Days. Monday and Tuesday, examinations for entrance
September 21, Tuesday		
September 22, Wednesday		
September 22, Wednesday		Convocation, 10:30 a. m.
October 14, Thursday		Founders Day
November 25, Thursday		Thanksgiving Day
December 17, Friday		Christmas Recess begins, 4:10 p. m.

1921

January 4, Tuesday		Christmas Recess ends, 7:30 a. m.
January 24, Monday	{	Kinney Freshman Contest in Declamation, 8 p. m.
February 7, Monday		
to		Mid-year Examinations
February 12, Saturday		
February 12, Saturday		First Semester ends
February 14, Monday		Registration Day for under-classmen
February 15, Tuesday	{	Registration Day for upper-classmen and graduates
February 22, Tuesday		
February 24, Thursday		Washington's Birthday
February 24, Thursday		Matriculation Day
March 24, Thursday		Spring Recess begins, 4:10 p. m.
April 4, Monday		Spring Recess ends, 10:30 a. m.
May 30, Monday		Memorial Day
June 17, Friday	{	Final Examinations
to		
June 23, Thursday		
June 27, Monday		Commencement

SUMMER VACATION

September 19, Monday	{	Registration Days. Monday and Tuesday, examinations for entrance
September 20, Tuesday		
September 21, Wednesday		
September 21, Wednesday		Convocation, 10:30 a. m.

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HISTORICAL SKETCH

The history of the development of Southern California from a land sparsely inhabited and apparently fit only for a cattle range, into a genuine American commonwealth with its multitude of prosperous communities, covers hardly forty years; but this brief span of time has been a period of intense activity and remarkable growth. This epoch of swift progress was inaugurated by the completion of a second transcontinental railway, in this case piercing Southern California directly from the East, together with the sudden awakening to a realization of the great agricultural possibilities of the section through irrigation. A large immigration and a rapid increase in land values were at once induced. New towns sprang up almost in a day and great industrial projects characteristic of such a period were at once inaugurated.

While the commercial and speculative interests were conspicuously in evidence there were among the new settlers, nevertheless, many whose chief concern was for the higher values of life and character. Not least among these were those whose former affiliations had been with New England and its institutions. The Southern California District Association of Congregational Churches, meeting at San Bernardino in 1882, agitated the question of founding a college of the New England type. In 1886 the Association met at Lugonia (now Redlands), when the report of the educational committee was an earnest appeal for such a college. At this meeting a larger educational committee than usual was appointed and was instructed to view locations and invite proposals of aid toward establishing a "Christian College of the New England Type." In accordance with these instructions the committee visited various places from which

they had received offers of aid and gave the matter serious and careful consideration.

In May, 1887, the District Association met in Los Angeles and became the General Association of Southern California. This General Association immediately gave full power to its committee of education, not only to select the College site, but to appoint trustees for the prospective institution. Fifteen trustees, two of whom are still members of the board, were duly appointed; the College was incorporated October 14, 1887, under the name of The Pomona College; and a site was selected about four miles north of the city of Pomona.

For the immediate needs of the College a small private house was rented in Pomona, and in it the work of instruction was begun in September, 1888. In the following January an unfinished hotel in Claremont (now Sumner Hall), together with considerable land adjacent, was given to the College and the work was transferred to that place. It was originally supposed that this location would be temporary; the name of the College was therefore retained in the expectation that ultimately the site originally selected would be used. Later this plan was abandoned and Claremont was made the permanent seat of the College. By this time, however, the name of "Pomona College" had become so definitely fixed that it has been retained, notwithstanding the change of location.

The growth of the College has been swift and constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. For some time the work of the Preparatory School was of large importance, but later on this was discontinued owing to the increased growth and importance of the College. The maximum number which can now be received is 750. This situation

allows the College to accept only about two hundred Freshmen, one hundred men and one hundred women, and at the present time compels the rejection of a large number of applications. The original campus of about twelve acres has been enlarged by purchase and by gifts until it now comprises one hundred acres; and this area, together with its buildings, is being developed according to plans carefully worked out by competent landscape gardeners and architects, the whole growth being in accord with one harmonious plan. All this rapid progress of the institution has been made possible by a most generous company of friends who have responded nobly to the calls of higher Christian education and to the needs of young people. From the very beginning the institution has been the creation of sacrifice, affection and idealism. To a remarkable degree the College has been made possible by a great democracy of high-minded givers, and the character of these benefactors is reflected in the daily life and procedure of the College.

While the College was originally Congregational in organization, it long ago made itself the servant of a wider fellowship. The Board of Trustees is a self-perpetuating body, absolutely free from ecclesiastical control and representing different communions, but obliged, nevertheless, by the College Charter to maintain the institution as truly Christian, though unsectarian. From the first it has been the policy of all concerned in the administration of the institution to maintain a high standard of college life and work, and to put the emphasis upon quality in the development of strong and serviceable Christian manhood and womanhood. Thus the purpose for which the College was founded is expressed in its motto, "Our Tribute to Christian Civilization."

BOARD OF TRUSTEES

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CHARLES E. WALKER, <i>Treasurer</i>	Los Angeles

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A. J. CROOKSHANK	Santa Ana
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Term of Office Expires, June, 1922

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REV. WILLIAM O. WARK	Pomona

Term of Office Expires, June, 1923

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REV. HENRY KINGMAN, D.D.	Claremont
WILLIAM S. MASON	Evanston, Ill.
DELL A. SCHWEITZER	Los Angeles

Term of Office Expires, June, 1924

JAMES A. BLAISDELL, D.D.	Claremont
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FRANK H. HARWOOD	San Dimas
REV. CHARLES B. SUMNER, LL.D.	Claremont
W. H. R. WELDON	South Pasadena
FRED M. WILCOX	Lamanda Park

Term of Office Expires, June, 1925

DONALD G. APLIN	Highland
LLEWELLYN BIXBY	Long Beach
ELI P. CLARK	Los Angeles
WINFRED E. GARRISON, PH.D.	Claremont
GEORGE W. MARSTON	San Diego

ERNEST E. JONES, <i>Business Manager</i>	Claremont
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Committees of the Board

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CHARLES B. SUMNER, *Secretary*

ARTHUR M. DOLE

CHARLES E. HARWOOD

DELL A. SCHWEITZER

CHARLES E. WALKER

BUTLER A. WOODFORD

COMMITTEE ON INVESTMENTS

CHARLES E. WALKER

GEORGE W. MARSTON

ELI P. CLARK

FRED M. WILCOX

ERNEST E. JONES, *Business Manager*

COMMITTEE ON WAYS AND MEANS

DONALD G. APLIN

ARTHUR J. MCFADDEN

LLEWELLYN BIXBY

SEELEY W. MUDD

JAMES A. BLAISDELL

DELL A. SCHWEITZER

A. J. CROOKSHANK

WILLIAM O. WARK

JAMES S. EDWARDS

W. H. R. WELDON

FRANK H. HARWOOD

FRED M. WILCOX

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W. O. WARK

LLEWELLYN BIXBY

WINFRED E. GARRISON

EDWIN F. HAHN

COMMITTEE ON BUILDINGS AND GROUNDS

CHARLES B. SUMNER

GEORGE W. MARSTON

WILLIAM S. MASON

COMMITTEE ON NOMINATIONS

JOSEPH H. JOHNSON

CARL S. PATTON

JAMES A. BLAISDELL

JAMIESON & SPEARL }
ROBERT H. ORR } *Architects*

FACULTY

JAMES ARNOLD BLAISDELL 345 College Ave.
*President, 1910**

B.A., Beloit College.; M.A., Beloit College; D.D., Beloit College. Graduate, Hartford Theological Seminary.

CYRUS GRANDISON BALDWIN Palo Alto
President Emeritus, 1890

B.A., Oberlin College; M.A., Oberlin College; Student, Andover Theological Seminary; D.D., Oberlin College.

EDWIN CLARENCE NORTON 137 W. Seventh St.
Dean of the Faculty and Professor of the Greek Language and Literature on the Edwin Clarence Norton Foundation, 1888

B.A., Amherst College; M.A., Amherst College and Yale University; Ph.D., Carleton College; D.D., Pacific Theological Seminary. Graduate Student, Johns Hopkins, Columbia and Oxford Universities.

FRANK PARKHURST BRACKETT 270 E. Third St.
Professor of Mathematics on the Frank Parkhurst Brackett Foundation and Director of the Observatory, 1888

B.A., Dartmouth College. M.A., Dartmouth College. Honorary Fellow, Clark University.

PHEBE ESTELLE SPALDING 261 W. Fifth St.
Professor of English Literature on the Phebe Estelle Spalding Foundation, 1889

B.L., Carleton College. M.L., Carleton College; Ph.D., Boston University.

DANIEL HERBERT COLCORD 157 E. Seventh St.
Professor of the Latin Language and Literature, 1890

B.A., Amherst College; M.A., Amherst College; B.D., Andover Theological Seminary. Graduate Student, Harvard University.

ARTHUR DART BISSELL 319 Harvard Ave.
Professor of German, 1892

B.A., Amherst College; M.A., Amherst College; B.D., Yale University; Ph.D., Yale University. Graduate Student, University of Leipzig.

GEORGE GALE HITCHCOCK 721 College Ave.
Professor of Physics, 1892

B.A., University of Nebraska. Graduate Student, Johns Hopkins and Cornell Universities.

GEORGE STEDMAN SUMNER 105 College Ave.
Professor of Economics and Sociology on the Stedman-Sumner Foundation, 1897

B.A., Pomona College; B.A., Yale University; Ph.D., Yale University.

*The date in each case denotes the beginning of original term of service.

- CHARLES CUMMINGS STEARNS 146 E. Tenth St.
*Professor of Biblical History and Literature on the
 Nancy M. Lyon Foundation, 1906*
 B.A., Yale University; M.A., Yale University; B.D., Union Theological
 Seminary. Graduate Student, University of Berlin.
- GRACE ELLA BERRY Sumner Hall
Dean of Women and Assistant Professor of Mathematics, 1909
 B.S., Mount Holyoke College; M.A., Mount Holyoke College.
- JAMES ALEXANDER LYMAN 833 Indian Hill Blvd.
Professor of Chemistry, 1909
 B.A., Beloit College; M.A., Beloit College; Ph.D., Johns Hopkins Uni-
 versity. Graduate Student, University of Chicago.
- MILTON ERASTUS CHURCHILL¹ 507 Yale Ave.
*Secretary of the Faculty and Associate Professor of
 German, 1902*
 B.A., Knox College; M.A., Knox College; Litt.D., Knox College; B.D.,
 Yale University. Graduate Student, University of Leipzig.
- MENDAL GARBUTT FRAMPTON 927 Harvard Ave.
Professor of the English Language, 1904
 B.A., Illinois College; M.A., Illinois College; M.A., Harvard University.
 Graduate Student, Harvard and Chicago Universities.
- CHARLES GRACCHUS NEELY 739 College Ave.
Professor of Constitutional History and Law, 1911
 B.L., University of Illinois.
- WILLIAM ATWOOD HILTON 1264 Dartmouth Ave.
*Professor of Zoology on the Willard George Halstead
 Foundation, 1905*
 B.S., Cornell University; Ph.D., Cornell University.
- ROBERT DAY WILLIAMS 260 E. Seventh St.
Professor of Philosophy and Experimental Psychology, 1909
 B.S., Pomona College; M.A., Yale University; Ph.D., Yale University.
 Graduate Student, University of California.
- BERNARD CAPEN EWER 339 Yale Ave.
Professor of Psychology, 1916
 B.A., Brown University; M.A., Brown University; Ph.D., Harvard Uni-
 versity.
- RALPH HAINE LYMAN 357 W. Tenth St.
*Professor of Applied Music and Instructor in Singing,
 Head of Department of Music, 1917*
 B.A., Grinnell College. Student in voice with Karleton Hackett, William
 B. Olds, Grant Hadley, Arthur Middleton, Courtland Cooper, Holmes
 Cowper and other American masters and with Vittorino Moratti in Berlin.

¹Absent on leave, first semester, 1920-1921.

MARO BEATH JONES

237 W. Fourth St.

Professor of Romance Languages, 1911

B.A., Boston University; M.A., Boston University; Graduate Student, Universities of Chicago, Geneva and Barcelona. Student, Estudis Universitaris Catalans, Barcelona.

WILLIAM EVAN NICHOLL

627 Indian Hill Blvd.

Dean of the College and Assistant Professor of Education, 1919

B.A., Bellevue College; M.A., Teachers' College, Columbia University. Graduate Student, Edinburgh University.

HOMER ELMER ROBBINS

487 Harrison Ave.

Professor of Classical History and Language, 1915

B.A., University of Michigan; M.A., University of Michigan; Ph.D., University of Michigan. Graduate Student and holder of University and Buhl Classical Fellowships, University of Michigan.

WALDEMAR CHRISTIAN WESTERGAARD

Professor of History on the Warren F. Day Foundation, 1916

B.A., University of North Dakota; M.L., University of California; Ph.D., University of California. Fellow in History, Cornell University.

ROBERT CHARLES DENISON

232 Fifth St.

Professor of Philosophy, 1920

B.A., Amherst College; D.D., Amherst College.

WESLEY FROST AYER

346 Harvard Ave.

Professor of Military Science and Tactics, and Commanding Officer Reserve Officers' Training Corps, 1920

B.A., Beloit College; M.A., University of Wisconsin.

WILLIAM POLK RUSSELL

506 E. Sixth St.

Associate Professor of Mathematics on the Joseph W. Fiske Foundation, 1904

B.A., Cumberland University; M.A., Cumberland University. Graduate Student, Columbia and Yale Universities.

ARTHUR VOLNEY STOUGHTON

146 W. Seventh St.

Associate Professor of Physiology and Hygiene, and College Physician, 1911

B.A., Pomona College; M.D., Ohio Medical University. Graduate Student, Medical Department of Johns Hopkins University and Medical School of Harvard University. Student, Laboratories of Friedrichshain Krankenhaus and Private Laboratory of Professor Pick, Berlin. Resident Physician, Protestant Hospital, Columbus, O.

HANNAH TEMPEST JENKINS

Claremont Inn

Associate Professor of Art and Design, 1905

Graduate Teachers College, Columbia University. Student Philadelphia Academy of Fine Arts. Pupil of Jean Paul Laurens, Constant and St. Pierre in figure and portrait, of Henry Thompson in landscape, and of Wm. M. Chase, Robert Vonnoh and Cecilia Beaux in portrait. Paris Salonist, 1889.

- EDWARD PAYSON BARTLETT 135 E. Ninth St.
Associate Professor of Chemistry, 1909
 B.A., Dartmouth College; M.A., Harvard University; Ph.D. Harvard University; Graduate Student, Columbia University.
- VICTOR EDWARD MARRIOTT 116 E. Twelfth St.
Librarian, 1912
 B.A., Beloit College; M.A., University of California. Graduate Student, Yale University.
- WALTER EARLE HARTLEY 127 W. Eighth St.
Associate Professor of Organ and Piano, 1915
 B.A., Yale University; B.Mus., Yale University. Associate, American Guild of Organists. Pupil of Widor, in Organ and Composition, and of Stubbs.
- ROBERT TRESILIAN BELCHER 169 W. Sixth St.
Assistant Professor of Mathematics and Engineering, 1907
 B.A., Queen's University. Graduate Student, Queen's College and University of California.
- WALTER ALFRED ALLEN 246 E. Second St.
Assistant Professor of Musical Theory and Appreciation, and Instructor in Organ, 1912
 B.A., Beloit College; B.Mus., Yale University; Associate, American Guild of Organists.
- WILLIAM SHEFFIELD AMENT 1130 Harvard Ave.
Assistant Professor of English, 1912
 B.A., Oberlin College; M.A., Harvard University. Graduate Student, Columbia University.
- CARL PETER SCHOTT 725 Harvard Ave.
Assistant Professor of Physical Education for Men, 1916
 B.E., Nebraska State Normal School; B.P.E., Young Men's Christian Association College, Springfield, Massachusetts. Graduate Student, Purdue University.
- EUGENE WHITE NIXON 1034 Harvard Ave.
Assistant Professor of Physical Training for Men, 1916
 B.A., Monmouth College. Graduate Student, University of Illinois.
- PHILIP ALEXANDER MÜNZ 140 W. Seventh St.
Assistant Professor of Botany on the Henry Kirke White Bent Foundation, 1917
 B.A., University of Denver; M.A., University of Denver; Ph.D., Cornell University.
- AMANDUS ZOELLNER Los Angeles
Assistant Professor of Violin, 1918
- GEORGE SAMUEL BURGESS 245 W. Tenth St.
Assistant Professor of Political Economy, 1918
 B.A., University of Michigan; J.D., University of Michigan.

- FRANK DAVID THOMSON 338 Harvard Ave.
Assistant Professor of Accounting and Commercial Subjects, 1918
 B.A., Knox College; M.A., Knox College. Graduate Student, Johns Hopkins University.
- REXFORD DAVIS COLBURN 117 E. Seventh St.
Assistant Professor of Piano, 1919
 B.Mus., Syracuse University. Graduate Student, Syracuse University.
- CHARLES TABOR FITTS 131 W. Eighth St.
Assistant Professor of English, 1919
 B.A., Amherst College. Graduate Student, University of California.
- FREDERICK NEWTON EDWARDS 140 W. Seventh St.
Assistant Professor of Argumentation, 1920
 B.A., Pomona College; M.A., University of California. Graduate Student, Columbia University.
- ALFRED OSWALD WOODFORD 639 Yale Ave.
Assistant Professor of Geology, 1915
 B.A., Pomona College. Graduate Student, University of California.
- ARMANDO THOMAS BISSIRI 709 College St.
Assistant Professor of Romance Languages, 1920
 Liceo Mamiani, Rome. Dottore in Giurisprudenza, Royal University, Rome.
- ALICE EVANS 132 E. Second St.
Assistant Professor of Physical Education for Women, 1920
 B.A., Smith College. Graduate Student, Wellesley College.
- CLYDE SHELDON SHEPARD 246 E. Third St.
Assistant Professor of Oral Address, 1920
 B.A., University of Missouri; LL.B., University of Chattanooga; B.O., National School of Elocution and Oratory, Philadelphia; M.A., University of Southern California.
- EDWARD TAYLOR 139 E. Seventh St.
Assistant Professor of Engineering, 1920
 C.E., University of Minnesota. Graduate Student, University of Oregon.
- CLIFFORD NOTT HAND 1122 College Ave.
Director of Religious Interests, 1919
 B.L., Pomona College; B.D., Pacific School of Religion. Graduate Student, University of California.
- MABLE CLAIR WEST 1016 Columbia Ave.
Instructor in Piano, 1905
 B.S., Pomona College. Graduate Student, Peabody Conservatory of Music, Baltimore.

- HELEN FELICITAS HAURY 272 W. Seventh St.
Instructor in Chemistry, 1918
B.A., Pomona College. Graduate Student, Columbia University and University of California.
- WINIFRED MCPHERSON GOODRICH 407 Harvard Ave.
Instructor in Physical Education for Women, 1918
B.A., Pomona College.
- MARGARET GAYLORD 319 W. Sixth St.
Instructor in Romance Languages
B.A., Pomona College.
- ALMA MOZELLE ANDERSON 132 E. Second St.
Instructor in Romance Languages
B.A., Colorado College. Graduate Student, University of California.
- ROSA FRIEDA BISSIRI 709 College Ave.
Instructor in French, 1920
B.A., Kreuzlingen College, Switzerland.
- BERTHA HART Claremont Inn
Instructor in Piano, 1920
B.Mus., Oberlin Conservatory of Music. Student in Piano with Theodore Wiehmayer, Stuttgart, Germany, and with Raoul Pugno in Paris.
- GRACE ALTHEA HAYWARD 353 W. Sixth St.
Instructor in English, 1920
B.A., University of Kansas; M.A., Columbia University.
- COLVIN HEATH Pomona
Instructor in Military Science and Physical Education, 1920
B.A., Pomona College.
- WALTER ROSS LIVINGSTON 153 E. Sixth St.
Instructor in Economics and History, 1920
B.A., Knox College; M.A., University of Missouri.
- MARY ETHEL LAWRENCE 809 Indian Hill Blvd.
Instructor in Chemistry, 1920
B.A., Pomona College.
- ELEANOR ALLEN LEE 351 Fifth St.
Instructor in Singing, 1920
B.A., Pomona College. Student in Singing with Oscar Seagle, Herbert Witherspoon and Frank La Forge.
- MARY LILLIAN WOODFORD 639 Yale Ave.
Instructor in Physical Education for Women, 1920
B.A., Pomona College. Graduate Student, Wellesley College.

Administrative Officers of Faculty

JAMES ARNOLD BLAISDELL, D.D.	President's Rooms, Sumner Hall
<i>President</i>	
EDWIN CLARENCE NORTON, PH.D.	Room 3, Holmes Hall
<i>Dean of the Faculty</i>	
WILLIAM EVAN NICHOLL, M.A.	Room 9, Holmes Hall
<i>Dean of the College</i>	
GRACE ELLA BERRY, M.A.	Sumner Hall
<i>Dean of Women</i>	
MILTON ERASTUS CHURCHILL, ¹ LITT.D.	Room 15, Sumner Hall
<i>Secretary of the Faculty</i>	
ROBERT DAY WILLIAMS, PH.D.	Room 15, Sumner Hall
<i>Acting Secretary of the Faculty First Semester</i>	
FRANK PARKHURST BRACKETT, M.A.	The Observatory
<i>Director of the Observatory</i>	
MENDAL GARBUTT FRAMPTON, M.A.	Rooms 7 and 8, Holmes Hall
<i>Acting Registrar</i>	
CHARLES TABOR FITTS, B.A.	Room 10, Holmes Hall
<i>Chairman of Committee on Admission</i>	
VICTOR EDWARD MARRIOTT, M.A.	Library
<i>Librarian</i>	
MARION JEANETTE EWING, B.A., B.S.	Library
<i>Assistant Librarian</i>	
GEORGIA GRACE THOMAS	Room 15, Sumner Hall
<i>Assistant Secretary of the Faculty</i>	
ROBERT JAMES BERNARD, B.A.	President's Rooms, Sumner Hall
<i>Assistant to the President</i>	

Class Officers

GENERAL—Dean Nicholl
 SENIOR—Professor Brackett
 JUNIOR—Professor Robbins
 SOPHOMORE—Professor Edwards
 FRESHMAN—Professor Fitts

¹Absent on leave, first semester, 1920-1921.

Business Administration

ERNEST EVERETT JONES, B.S.

Business Manager

119 College Ave.

MARY LOUISE BILLINGS

Accountant

541 Harvard Ave.

Committees of the Faculty

(WITH PLACE AND TIME OF MEETING)

Admission—Messrs. Fitts, Frampton, Miss Berry. Room 10. On call.

Buildings and Grounds—Messrs. Stearns, Munz, Belcher. Room 4. On call.

Classification—Messrs. Frampton, Sumner, Miss Berry, Mr. Fitts. Room 7. 3:15 p. m., Friday.

College Life—Mr. Nicholl, Miss Berry, Messrs. Brackett, Fitts, Miss Evans. Room 9. 1:15 p. m., Thursday.

Courses of Study—Messrs. Sumner, Frampton, Robbins, Munz, Westergaard. Room 14. 11:00 a. m., Thursday.

Educational Efficiency—Messrs. Williams, J. A. Lyman, Ewer, Ament, Hartley, Marriott. Room 58. 1:15 p. m., Thursday.

Faculty Meetings—Miss Berry, Messrs. Williams, Marriott. Room 15. 2:30 p. m., Friday.

Federated Clubs—Messrs. Jones, Brackett, Hilton. Room 17. On call.

Graduate Work—Messrs. Bartlett, Ewer, Hitchcock. On call.

Library—Miss Spalding, Messrs. Marriott, Stoughton, Westergaard, Burgess, Miss Ewing. Room 50. 3:15 p. m., the first Friday of each month.

Physical Education—Messrs. Russell, Stoughton, Schott, Nixon, Miss Evans, Mr. Ament. Room 2. On call.

Publications—Messrs. Churchill, Williams, Hilton, Ament, Bernard, Miss Thomas. On call.

Public Events and Lectures—Messrs. Williams, R. H. Lyman, Allen, Schott, Howard. On call.

Religious Interests—Messrs. Marriott, Hand, Robbins, Miss Ewing. Room 50. On call.

Rooms—Messrs. Sumner, Nicholl, Williams. Room 14. On call.

Rules—Mr. Nicholl, Miss Berry, Mr. Frampton. On call.

Student Aid and Labor—Messrs. Hand, Marriott, Fitts, Miss Berry. On call.

Summer School—Messrs. J. A. Lyman, Russell, Hilton. On call.

CHARACTER OF THE COLLEGE

Pomona College is located at Claremont, on the Santa Fe and Pacific Electric Railways, thirty-five miles from Los Angeles. It is connected by the Pacific Electric Railway with Pomona, which is four miles distant, on the Salt Lake and the Southern Pacific roads. On the rim of an orchard-covered valley, which is hemmed in on all sides by lofty mountains, and with Mt. San Antonio in the immediate background rising to the height of ten thousand feet, its situation is one of rare beauty. The genial southern climate invites to outdoor life and exercise the year around, while the deep canyons, the rushing streams and the long trails to the heart of the hills allure to the rewarding intimacies of nature. The town of Claremont, which now numbers about eighteen hundred inhabitants, owes its existence to the College, and has the attractive features of the typical college community. The location and situation, within easy reach of the great and growing metropolis of the Southwest, and yet in the quiet retirement of valley and hill, is uniquely wholesome and stimulating in full measure to simplicity and thoughtfulness and all the best enthusiasms of which life is capable.

The College is pre-eminently a company of workers. From the very beginning it has maintained a reputation for interest in thorough scholarship rather than in large numbers. The procedures of the College are established in the purpose of appealing to students who appreciate the seriousness of the College opportunity. To this end, the standards of admission are unusually high. Not only is the number limited, but as defined elsewhere, only students who have finished their preparation with a high grade of promise are received. It is the distinct purpose to make the membership in the institution itself a scholastic honor. This inevitably

involves a sacrifice of certain values which would be temporarily pleasurable but which are not consistent with the most remunerative purposes.

It is the habit of the College to urge that scholarship should not only be high but also broad and inclusive. Pomona College is not a professional school. It insists that the best preparation for life includes not only the ample, generous and complete training of the college course, such as is here given, but also at a later period a thorough and definite professional specialization. It has farther insisted that this best and most complete training is practicable for a much larger number of young people than commonly feel that they have the resources of time and money for it. The College is eager to co-operate in the problems of such aspiring students; it has also been singularly successful in permeating its body of students with these ambitions, and the remarkable success of its graduates is due in no small degree to the fact that nearly seventy per cent of all who have graduated have taken subsequent professional training.

To the end that the College may be adequate for the broadest intellectual citizenship and service, a certain number of courses representing typically the differentiated fields of knowledge and investigation are required, and particular emphasis is laid upon those topics which relate to the history of thought, the organization of society and the bases of truth and righteousness. These courses are required of all, whether staying a longer or a shorter time in the institution, as being important to the main purpose for which the College exists. While these few courses are required, there is around them ample field for selection, according to the student's individual interest and purpose.

The College recognizes the fact that social training is also an essential part of education. It is believed that the co-edu-

cational character of the College greatly increases the culture of the student body in this respect. Working together on the highest levels of life, men and women are most likely to associate in mutual respect and dignity. It is practically the unanimous testimony of the graduates of this college that these relations add to the genuine wholesomeness and rounded worth of the student's life. While emphasizing social values and opportunities, the College, however, recognizes them as interests which must be held subordinate to the main business of study and work. For this reason limitations which sometimes may seem narrow are laid upon the social life of the college community. Fraternities and sororities, in the ordinary acceptance of these terms, and extravagant social life, do not exist at Pomona College, and no one should seek the institution who is not willing to make surrender of some personal pleasures in the interests of the common college earnestness and simplicity.

Once more; the College is frankly Christian. It owes its origin and support to men and women of Christian ideals; it cannot, therefore, be other than loyal to these interests. Instead of maintaining a separate Christian life, the College also urgently lays upon its students the obligation of allegiance to that wider democracy of service and uplift which is represented in the Christian Church. The College is, nevertheless, emphatically broad in its hospitality to modern thought. It holds that no student should go out of the College unaware of the throbbing questions of the day or unprepared to face the winds of free discussion; therefore, it welcomes all honest expression of opinion, putting faith in the power of truth to hold its own in the arena of open debate. It thus seeks to resource the coming generation with a leadership of intellectual capacity, directed will and Christian character.

DEGREES

BACHELOR OF ARTS

The courses of study offered by the College lead to the degree of Bachelor of Arts. These courses include certain required studies, but also a wide range of electives in language and literature, philosophy, economics, history, mathematics, science and fine arts. An average of fifteen hours of academic work per semester throughout the four years is required for the completion of the courses. A detailed statement of the curriculum will be found on page 32.

COURSES WITHOUT DEGREES

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which by ability and preparation they may be fitted. Special students are not candidates for a degree, though completion of the prescribed courses in Music and Art entitles the student to receive the special State Teacher's Certificate upon the recommendation of the College.

MASTER OF ARTS

A limited number of students, whose under-graduate records show marked excellence, are accepted as candidates for the Master's degree. Only those are admitted who give promise of contributing a definite and inspiring influence to the life of the College. Such residence is therefore required as is deemed necessary to insure mutually helpful relations. A further statement of requirements will be found on page 36.

ADMISSION

GENERAL REQUIREMENTS AND METHODS OF ADMISSION

It is the purpose of Pomona College to do a distinctly and notably high grade of work, thus preparing its graduates for special distinction in whatever later callings they may choose. To this end candidates for admission to any class must present satisfactory evidence of their fitness for college, both in character and in scholarship. Testimonials of character and a letter of honorable dismissal from the last institution attended are required. As all applications for admission are carefully scrutinized, delay in filing applications inevitably involves delay in acceptance.

It is further advised that applications be made as early as possible, inasmuch as the College cannot under present conditions guarantee the admission of more than one hundred men and one hundred women to the freshman class, the trustees having limited the total attendance to seven hundred and fifty.

The College welcomes tentative applications from prospective freshmen several years in advance and is glad to offer suggestions from time to time regarding the best preparation for admission. In this respect the good offices of the College are freely at the service of all interested inquirers. A medical examination conducted by an authorized physician, under the direction of the Department of Physical Education, is required of all students.

ADMISSION TO FRESHMAN STANDING

Applicants are admitted to freshman standing in any one of three ways, as follows:

First: Examination by the College.

Second: Certificate of the College Entrance Examination Board.

Examinations are given by the College Entrance Examination Board at certain times and places, which may be learned from the Registrar or from principals of secondary schools.

Third: Certificate from approved schools or colleges.

Students from approved schools or colleges are admitted without examination on presentation of a certificate signed by the principal or proper official and showing in detail the requisite completed courses. Certificate blanks obtained from the Chairman of the Committee on Admission should be filled out and returned as early as possible after the completion of the high school year.

As the number of students admitted to the freshman class is limited, early application is advised. Applications are listed in the order of their receipt, are considered individually, and in every case must be accompanied by a certification both as to scholarship and character. No application is considered which does not show fifteen units in accepted subjects, at least twelve of which are recommended. Special endorsement by the principal must accompany all papers showing non-commended units, such endorsement to include the specific recommendation of the candidate, both as to character and ability, for the undertaking of college work.

Those are matriculated to full standing who at the end of a semester's residence meet the requirements stated on page 122; those who do not meet the requirements are not allowed to matriculate and are enrolled as in partial standing. No student in partial standing is recommended to college standing in another institution. The final acceptance of entrance units is based upon the character of the work done in class at Pomona College as well as upon the grade of the units presented.

ADMISSION TO ADVANCED STANDING

Students who have sufficient credit from other institutions are admitted to advanced standing on credentials signed by the proper officials and giving full specifications concerning the nature of the courses taken and the time spent in each, together with their rank in each subject. They are assigned hours and credits on the basis of their credentials, but such assignment is provisional until ratified by the Classification Committee. This ratification is not given until after the required semester's residence, at which time the Committee has power to act in adjusting hours or credits, or both, to the qualifications shown.

ADMISSION AS SPECIAL STUDENTS

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. This provision applies particularly to those equipped for advanced studies in special departments. The privilege of classification as special students is not open to those who seek admission to College in this way as a means of avoiding compliance with the entrance or collegiate requirements laid down for regular students. Special students are not candidates for a degree.

CREDITS FOR NON-COMMENDED WORK

Students who enter with some of their work non-commended may remove their deficiency in one of three ways—by examination, by continuing the same line of study in College with high grade or by extra work in College not counted towards a degree. These three methods are more fully described as follows:

First: Students may be examined upon any of the accepted subjects presented for entrance, and upon passing with B grade receive credit toward entrance for that subject.

Students wishing to remove deficiencies by examination must do so before entering upon College work. Such examinations must be taken during the first three days of registration week of either semester or (by special arrangement) the week preceding the College commencement. They must be arranged for in advance through the Registrar.

Second: Entrance credit will be given for non-commended work after a student has completed with high grade two or more College courses in the same or a closely allied subject, or upon conditions laid down in individual cases by the Classification Committee.

Third: Entrance credit may be gained by work in certain College courses, but such courses cannot count toward the number of hours or credits required for graduation, nor for honors. Moreover, students may not substitute for subjects specifically required for entrance other subjects taken in this way.

Students are not candidates for a degree nor are they eligible for recommendation to college standing in another institution until they have been matriculated. (See page 97). Students are matriculated only after they have come into full standing. All students must be matriculated before attaining to Junior standing.

COURSES REQUIRED FOR ADMISSION TO FRESHMAN STANDING

In the following outline of courses a "unit" represents a course of study in one subject of high school grade involving five forty-five minute recitations per week or an equivalent for a school year. Laboratory periods should be at least twice the length of recitation periods.

Not less than one unit in any subject is normally accepted,

though a half unit may be accepted when accompanied by units for courses in allied subjects.

SPECIFIC REQUIREMENTS—9 UNITS

English, 3 units	Algebra, 1 unit
History, 1 unit	Geometry, 1 unit
One foreign language, 2 units	*One laboratory science, 1 unit.

ADDITIONAL REQUIREMENTS—3 UNITS

Selected from the following:

English	Mathematics
History	*Laboratory Science
Foreign Language	

ELECTIVE—3 UNITS

It is recommended that these electives be chosen from the subjects specified above, but in view of the importance of other lines of high school work credit is allowed for full units in other courses counted for high school graduation, the acceptance of which is specifically recommended by the principal of the school.

DESCRIPTION OF SUBJECTS

Details regarding subjects accepted for entrance may be secured from the Chairman of the Committee on Admission. In general each unit represents a year's work in the subject, as ordinarily presented in the California high schools.

*Heads of departments in which students wish to continue laboratory subjects begun in high school may, at their option, require the high school notebooks to be submitted as evidence of ability to continue with more advanced work in the department.

EXTRA ENTRANCE CREDITS

If by examination or by certificate, a student presents more than fifteen units of commended work for admission he may, after the lapse of a semester and upon formal application, receive college credit for certain subjects taken in the third or fourth year of the high school course, provided that these subjects, or others closely allied, have been continued in college with high grade, one unit of commended work being allowed from three to five hours of college credit. Extra credit is thus allowed in foreign language, advanced mathematics, advanced science, and English. Credit, varying in amount with the individual courses, is granted for graduate work in approved high schools.

CURRICULUM

DEGREE OF BACHELOR OF ARTS

The courses of study offered lead to the degree of Bachelor of Arts under the following hour and credit requirements.

HOURLY REQUIREMENTS

One hundred and twenty-six hours of work are required for graduation. An "hour" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty-five minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in four years one must take an average of fifteen hours of academic work per semester throughout the four years.

CREDIT REQUIREMENTS

In order to graduate a student must not only earn a certain number of hours, but also attain an average of at least C grade in those hours. To this end a certain number of credits is ascribed to each grade as a basis of determining average grade. The scale is so adjusted that the number of credits required for graduation coincides with the number of hours. Details regarding credits are published in the "Manual of Procedure."

CHOICE OF SUBJECTS

In the selection of his work the student is given a large range. The only limitations are such as will insure to him, on the one hand, the breadth of view which may be gained by an introductory study of each of the great realms of knowledge; and, on the other, that concentration along some chosen line of work which shall develop power of thought and an actual fund of knowledge in some particular field.

To this end there are certain subject requirements as stated below. The College would emphasize also, the advisability of selecting work representing each of the following broad groups of subjects:

1. Language, Literature and Fine Arts.
2. Mathematics, Physical and Biological Sciences.
3. History, Social Sciences and Philosophy.

SUBJECT REQUIREMENTS

English Composition¹ —6 hours, Freshman year.

English Literature—6 hours, Freshman or Sophomore year.

French or German or Spanish—12 hours, Freshman and Sophomore years.

History—6 hours, Freshman or Sophomore year, except for those who enter with credit for three units of History.

Hygiene—2 hours, Freshman or Sophomore year.

Mathematics²—6 hours, ordinarily Freshman year, except for those who enter with credit for three units of Mathematics. Greek or Latin may be substituted for Mathematics; but if the course in beginning Latin is taken the requirement becomes 12 hours instead of 6 hours.

Physics, Chemistry, Zoology, Botany, Astronomy, Geology or Physiology²—6 hours, Freshman or Sophomore year, except for those who enter with credit for three units in these subjects. A student who enters with only one unit of science must take 6 hours of another line of science and, in general, it is expected that one will take in College at least 6 hours in science in a different line from any presented for entrance.

¹Waived in the case of those who, by entrance test, prove an ability to write and spell well.

²The requirement may be waived in only one of these groups, whatever the preparation.

Physical Education—4 hours in Freshman and Sophomore years and 2 hours in Junior and Senior years for those not taking Military Training. For those taking Military Training the requirement is 1 hour per year throughout the course.

Military Training—Required of all men entering to Freshman or Sophomore standing, until they have credit for two years' work or the equivalent.

Economics—6 hours, usually Sophomore or Junior year.

Ethics—3 hours, Sophomore or Junior year; or History of Philosophy—6 hours Junior year.

Psychology—3 hours, Sophomore or Junior year.

In addition to these requirements, there is a general requirement of 36 hours of C and D work, of which at least 9 must be D work.

Students who have shown special ability in one line of work may, with the consent of the head of the department, enroll for a departmental major. This major includes, usually, at least 18 hours in the department chosen, together with certain courses in allied subjects, and usually a reading knowledge of French and German. The student plans his work in consultation with the head of the department concerned. Certain prerequisites, differing with the subject chosen, are indicated for each major. A final examination or thesis or both may be required.

Students who desire to become candidates for a departmental major should indicate such intention as early as possible, and must be registered as candidates for such departmental major not later than the first week of registration in their Senior year.

The student who completes a departmental major receives in addition to his diploma the special commendation of the department.

COURSES IN MUSIC AND ART

The College is equipped to offer unusual privileges in the Departments of Art and of Theoretical and Applied Music. The influence of the College is greatly enriched by the contributions made through these departments to the cultural life of the institution as a whole. In Bridges Hall the great musicians of the world are heard, all students being supplied with admission to their concerts. Great enlargement of life comes through intimate acquaintance with these arts, both in theoretical and applied forms, and the College urges all regular students to include them, at least to some degree, in their cultural courses, credit toward the B.A. degree being granted on conditions specified under the detailed description of the courses.

TEACHERS' CERTIFICATES

The College is authorized by the State Board of Education to issue to individuals who complete a prescribed course of study, credentials entitling them to a certificate to teach in the public elementary and secondary schools of the State of California. Detailed information may be had on application.

SUMMER SESSION

The Summer Session affords opportunity to undergraduate students, especially, but also to high school teachers and others, to pursue work for credit in various departments. The Department of Zoology conducts its work at the Laguna Beach Marine Laboratory, Professor W. A. Hilton, Director. Other departments meet in the College buildings at Claremont. The session opens immediately after Commencement and continues for six weeks.

MUSIC AND LECTURE COURSE

In order to insure to the entire student body the opportunity of hearing and seeing the great artists of the day

whose public appearance is usually confined to the larger cities, the College introduces each year a group of the most distinguished masters in the various departments of achievement. For the lectures, concerts and other entertainments thus afforded an annual ticket is furnished to every student.

DEGREE OF MASTER OF ARTS

Pomona College places its main emphasis upon undergraduate courses. However, those departments of the College which are adequately equipped for the pursuance of graduate work accept especially well qualified students as candidates for the degree of Master of Arts. Such students should consult with the chairman of the Committee on Graduate Work as to the special requirements which will be made in their cases. In addition to the presentation of a thesis, twenty-four hours of work are required for the higher degree. The twenty-four hours are divided between a major subject and a minor subject in the same or in a closely allied department. No elementary undergraduate work may be counted. One copy of the thesis, bound in accordance with specifications in the hands of the librarian, must be placed in the College library.

SCHOOL OF EDUCATION

The School of Education was established at Pomona College in March, 1920, and formally recognized by the California State Board of Education on March 24th. The school is designed to train teachers and school administrators with the same thoroughness that has characterized Pomona undergraduate standards. Arrangements with the nearby schools have opened an unusual opportunity for practice teaching under the supervision of skilled teachers. The special courses in education, conducted by masters of

the subjects, offer rich opportunities beyond the mere technical requirements of State certification laws.

Work in the School of Education looks to the securing of certificates in California and surrounding states as follows:

I. General Secondary or High School Certificates.

II. Special Secondary Certificates.

(a) Manual and Fine Arts Type.

(b) Commercial Type.

(c) Music Type.

(d) Physical Education Type.

III. General Elementary Certificates.

IV. Special Elementary Certificates of the four types listed above.

At least Junior standing in Pomona College is required for enrollment in the School of Education, though the elementary required courses for special certificates may be taken in Freshman and Sophomore years.

Graduate work, looking to High School certificates, requires the Bachelor's degree from an approved college.

Graduates of approved Normal Schools and Junior Colleges are admitted to the courses leading to all certificates.

Graduates of Junior Colleges, looking to teaching in the Elementary Schools of California, can secure their elementary certificates with their B.A., and have all work count directly towards the requirements for High School certificates without loss.

COURSES WITHOUT DEGREES

In exceptional cases mature students who desire to receive instruction in courses not leading to a degree will be admitted, provided they give evidence of their fitness for such work.

LECTURES

THE JOSEPH H. JOHNSON FOUNDATION

The Joseph H. Johnson Foundation, liberally endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of furnishing to the College for a protracted stay and intimate participation in college life notable educators from other institutions. By this means such educators are annually in residence in Pomona College. The opportunity of intimate contact with distinguished instructors thus afforded to undergraduates is a unique privilege, often surpassing the privileges of the classroom of the institution from which these educators come.

THE HENRY D. PORTER FOUNDATION

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, secures to the institution annually, the extended stay of some prominent worker in the field of Christian Missions. The lecturer upon this foundation commonly shares in the regular classroom work related to the history, geography, politics or religion of the region in which he has been actively at work. This vivid representation of the missionary life is one of the most stimulating features in the spiritual program of the College.

CURRICULUM

An outline of the work which leads to graduation is here given by years. A more complete description of each course may be found under "Departments of Instruction."

Each "hour" represents one recitation or laboratory period per week for one semester.

FRESHMAN YEAR

Hygiene ¹	2 semester hours
Physical Education ²	2 semester hours
Military Training (for men)	3 semester hours
French, German or Spanish ³	6 semester hours
English Composition, or History ⁴ or English Literature	6 semester hours
Mathematics ⁵ , or Science ⁵	6 semester hours
Elective	Not less than 6 nor more than 15 semester hours

SOPHOMORE YEAR

Physical Education ²	2 semester hours
Military Training (for men)	3 semester hours
French, German or Spanish ³	6 semester hours
Mathematics ⁶ , or Science ⁶	6 semester hours
English Literature, or History ⁴ or Economics or Psychology and Philosophy	6 semester hours
Elective	Not less than 6 nor more than 15 semester hours

JUNIOR YEAR

Physical Education	1 semester hour
Elective	Not more than 34 semester hours
Should include any course requirements not already completed; and at least 12 hours of advanced (C and D) courses.	

SENIOR YEAR

Physical Education	1 semester hour
Elective	Not more than 34 semester hours
Should include 6 hours in D courses and enough advanced (C and D) courses to complete the graduation requirement of "36 hours of C and D work, of which 9 must be D."	

¹Must be taken in Freshman year by the women, and in Freshman or Sophomore year by the men, unless the equivalent is offered.

²One hour required of those taking Military Training.

³Must continue language begun in Freshman year unless two years of some one language are accepted for entrance, in which case the requirements may be met by 6 hours of that language and 6 hours of another foreign language.

⁴Must be taken in Freshman or Sophomore year, unless 3 units of History have been accepted for entrance.

⁵Students offering three units of accepted Mathematics or laboratory science will be excused from further work in one of these subjects, but not in both. Greek or Latin may be substituted for Mathematics.

⁶Unless Mathematics or science requirement was met in Freshman year.

COURSES OF INSTRUCTION

DESIGNATION OF COURSES

The letter preceding the number in the designation of a course indicates in general its grade. Elementary courses, designated by A (as English A1) are given in Freshman or Sophomore year; B courses are either those which follow the A courses of earlier years or the more advanced beginning courses; C and D courses are advanced courses given to Juniors and Seniors, D courses being the more difficult. The natural sequence of courses is from A to B, B to C, and C to D, and a student may not enter a C or D course without previous work in the same line.

Courses with numbers below 100 are underclass courses; those numbered from 100 to 199 are for Juniors and Seniors; those numbered over 200 are for graduate students. Properly qualified Seniors may be enrolled in graduate courses with the consent of the instructor.

Any course may be withdrawn if the enrollment is less than five.

In departments where one-hour courses are offered, two such courses should be completed to secure the counting of hours and credits towards graduation.

When courses in different semesters have the same general number (as B1a, B1b) they cover a common subject, and the entire sequence normally should be taken. If, however, they are connected by a hyphen (as B1a-B1b), the first course is complete in itself and may be followed by some allied subject instead of the next course in the sequence.

All courses are three hours each unless otherwise designated.

Roman numerals show the periods of recitations. Two courses with the same Roman numerals cannot be taken contemporaneously unless the numerals are preceded by different letters (as M or W), showing that the classes meet on different days of the group.

	7:30	8:30	9:30	11:15	1:15	2:15	3:15
M.W.F.	I	III	V	VII	IX	XI	XIII
T.Th.S.	II	IV	VI	VIII	X	XII	XIV

Hours to be arranged—A.

If a letter precedes the numeral, the class meets only on that day of the group.

ART

All lessons are two hours each, receiving with the required practice one hour of credit.

The following description of courses is suggestive only, as the work varies slightly from year to year, as the needs of the individual classes demand.

All courses except Art C11 and C12 are given by Associate Professor Jenkins, the head of the Department.

Classes in Graphics, Machine Drawing, Descriptive Geometry and Perspective are described under the Department of Engineering.

A1a, A1b. DRAWING FROM CAST AND OBJECT.

1 hour each.

A2a, A2b. PAINTING IN WATER COLORS. Color problems in hues, tints, intensities and values; still life; introduction to landscapes and flowers from nature.

1 hour each.

B3a, B3b. DRAWING FROM CAST. Full length figure and applied perspective.

1 hour each.

B4a, B4b. LANDSCAPE AND FLOWERS IN WATER COLOR AND PASTEL.

1 hour each.

B5a, B5b. ELEMENTARY DESIGN.

1 hour each.

B6. SKETCH CLASS.

All years. Either semester. 0 hours. Fee \$1.00.

B9a, B9b. ART APPRECIATION.

Not open to Freshmen.

1 hour each. Th. VIII.

C111. HISTORY OF ART. Outline study of Greek art.

First semester. VII.

Professor Norton.

C112. HISTORY OF ART. Study in Gothic and renaissance architecture, sculpture and painting.

Second semester. VII.

Professor Spalding.

C115a, C115b. ANATOMY OF HEAD AND FULL LENGTH FIGURE. Drawing from life in charcoal.

1 hour each.

C116a, C116b. PAINTING IN OIL COLORS.

1 or 2 hours each.

D117a, D117b. PORTRAIT PAINTING.

Senior year. 1 or 2 hours each.

Model fee, \$2.00 per hour per semester.

D118a, D118b. LANDSCAPE IN OILS.

1 or 2 hours each.

D120a, D120b. ADVANCED DESIGN.

Junior and Senior years. 1 hour each.

D219a, D219b. TEACHING OF ART.

Both semesters. 2 hours each.

ASTRONOMY

C100a, C100b. GENERAL ASTRONOMY.

This course is designed for students who have had only elementary courses in physics or chemistry, and mathematics. Class room, two hours a week; lecture and observatory amounting to one exercise a week.

Both semesters. VII.

Professor Brackett.

B17a, B17b. NAVIGATION AND NAUTICAL ASTRONOMY.

Both semesters. 3 hours.

Professor Brackett.

(Not given in 1920-1921.)

C103. HISTORY OF ASTRONOMY.

This course is designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles in physical science; or it may be taken as an advanced course by those who have had Astronomy C100. Some preparation in free-hand and mechanical drawing also is very desirable.

First semester. IV.

Professor Brackett.

D104. THEORETICAL AND PRACTICAL ASTRONOMY.

Prerequisites: Astronomy C100 or C103.

This course may be taken in conjunction with Astronomy C100b by students who have had sufficient preparation in mathematics and drawing. Ordinarily alternates with Astronomy D106.

Class room, one hour a week; lecture and observatory amounting to two exercises a week.

Second semester. IV.

Professor Brackett.

D106. ASTROPHYSICS.

This course may be taken in conjunction with Astronomy C100b by students who have sufficient preparation in physical science. Class room, one hour a week; lecture and observatory amounting to two exercises a week. Prerequisite: Astronomy C100 or C103. Ordinarily alternates with Astronomy D104.

Professor Brackett.

Laboratory fee \$5.00.

(Not given in 1920-1921.)

BIBLICAL LITERATURE

GENERAL BIBLE STUDY

Though courses B3, B4, B9, B10, C105, and C106 are complete in themselves, no hours or credits are accepted for graduation unless at least two of them are completed.

A1a, A1b. CONTENTS OF THE BIBLE.

Both semesters. 1 hour each. W, IX.

Professor Colcord.

B3. THE PRESERVATION AND TRANSMISSION OF THE OLD TESTAMENT.

First semester. 1 hour. F, IX.

Mr. Marriott.

B4. THE PRESERVATION AND TRANSMISSION OF THE NEW TESTAMENT.

Second semester. 1 hour. W, XI.

Professor Norton.

C105. OLD TESTAMENT INTRODUCTION.

First semester. 1 hour.

Professor Stearns.

(Not given in 1920-1921.)

C106. NEW TESTAMENT INTRODUCTION.

Second semester. 1 hour.

Mr. Marriott.

(Not given in 1920-1921.)

C107a, C107b. THE TEACHINGS OF JESUS.

Open to Seniors, and to Juniors with permission of instructor.

Both semesters. 1 hour. F, IX.

Mr. Hand.

B9. POETRY OF THE BIBLE.

First semester. 1 hour.

Professor Stearns.

(Not given in 1920-1921.)

B10. THE OLD TESTAMENT AS LITERATURE.

First semester. 1 hour. W, IX.

Professor Stearns.

BIBLICAL HISTORY AND LITERATURE

B21. ANCIENT ORIENTAL HISTORY AND LITERATURE.

First semester. III.

Professor Stearns.

B22. ANCIENT ORIENTAL HISTORY AND LITERATURE.

Second semester.

Professor Stearns.

(Not given in 1920-1921.)

C123. HEBREW HISTORY AND LITERATURE.

First semester. I.

Professor Stearns.

C124. EARLY CHRISTIAN HISTORY AND LITERATURE.

Second semester.

Professor Stearns.

(Not given in 1920-1921.)

C128. CHRISTIAN MISSIONS.

First semester.

Professor Stearns.

(Not given in 1920-1921.)

C125. HISTORY OF RELIGIONS.

First semester. V.

Professor Stearns.

C133. THE POETRY OF THE BIBLE.

First semester.

Professor Stearns.

(Not given in 1920-1921.)

D128. HISTORY OF CHRISTIANITY.

Second semester.

Professor Stearns.

(Not given in 1920-1921.)

D142. SEMITIC INSTITUTIONS AND CULTURE.

Prerequisite: Biblical Literature, B22 or C123.

Second semester.

Professor Stearns.

(Not given in 1920-1921.)

BIOLOGY

A1 and A2. GENERAL BIOLOGY.

Both semesters. Class room, M. W, VII; laboratory, T, W. Th,
or F, 1:15-4:10.

Professor Hilton, Assistant Professor Munz and Assistants.

Laboratory fee, \$6.00 each.

C106. GENETICS.

Prerequisite: At least one year of biological work.

First semester. 3 hours. Class M, F, III; laboratory W, 1:15-4:10.

Professor Hilton and Assistant Professor Munz.

Laboratory fee, \$5.00.

D108. BIONOMICS.

Prerequisite: At least a year of biological work.

Second semester. 3 hours. I.

Professor Hilton.

D219. TEACHING OF BIOLOGICAL SCIENCES.

First semester. 2 hours. M, Th, 4:15-5:10.

Professor Hilton and Assistant Professor Munz.

BOTANY

B21a, B21b. GENERAL BOTANY.

A necessary introductory course for advanced work in botany.

Both laboratory and field work. Laboratory, two exercises a week; lecture, one hour a week.

First semester. F, I; laboratory, T and Th, 1:15-4:10.

Assistant Professor Munz and Assistants.

Laboratory fee, \$7.00 each.

C124. PLANT HISTOLOGY.

Prerequisite: Botany B21.

Two laboratory periods and one lecture a week.

First semester.

Assistant Professor Munz.

Laboratory fee, \$7.00.

(Not given in 1920-1921.)

C123. PLANT PHYSIOLOGY.

Prerequisite: Botany B21.

A glass house and well equipped laboratory are available for this work. Laboratory, two periods a week; lecture, one hour a week.

First semester. 3 hours. W, I; laboratory, M, F, 1:15-4:10.

Assistant Professor Munz.

Laboratory fee, \$8.00.

C125. COMPARATIVE MORPHOLOGY.

Prerequisite: Botany B21.

Two laboratory periods and one lecture a week.

First semester.

Assistant Professor Munz.

Laboratory fee, \$7.00.

(Not given in 1920-1921.)

C105. BACTERIOLOGY.

Prerequisite: One year of biological work.

Two laboratory periods and one lecture a week.

Second semester. W, I; laboratory, T, F, 1:15-4:10.

Assistant Professor Munz.

Laboratory fee, \$8.00. Breakage deposit, \$5.00.

C126. TAXONOMY.

Prerequisite: Botany B21.

Two laboratory periods and one lecture a week.

Second semester. M. III. Laboratory, M, W, 1:15-4:10.

Assistant Professor Munz.

Laboratory fee, \$7.00.

D129. MYCOLOGY AND PLANT PATHOLOGY.

An extensive herbarium of fungi available for reference. Important for those intending to enter agricultural work. Laboratory and field work, two periods a week; lecture, one hour a week.

Second semester.

Assistant Professor Munz.

Laboratory fee, \$7.00.

(Not given in 1920-1921.)

D130. PLANT PROPAGATION AND BREEDING.

A glass house, lath house and special laboratory equipment are available. Designed for those interested in nursery work, landscape gardening, etc.

Prerequisite: Botany B21.

Two laboratory periods and one lecture a week.

Second semester.

Assistant Professor Munz.

Laboratory fee, \$10.00.

(Not given in 1920-1921.)

D131. INVESTIGATION AND RESEARCH.

Either semester. 1 to 3 hours. A.

Assistant Professor Munz.

Laboratory fee, \$2.00 for each hour of credit.

D132. INVESTIGATION AND RESEARCH. A continuation of Botany D131.

Either semester. 1 to 3 hours. A.

Assistant Professor Munz.

Laboratory fee, \$2.00 for each hour of credit.

D231. INVESTIGATION AND RESEARCH.

Either semester. 2 to 6 hours. A.

Assistant Professor Munz.

Laboratory fee, \$2.00 for each hour of credit.

CHEMISTRY

Students who wish to major in Chemistry should be prepared to meet the following requirements:

1. A knowledge of elementary Physics, equivalent to Physics A1a and A1b.
2. Sufficient acquaintance with French and German to enable the student to follow with tolerable ease the literature of chemistry.
3. Mathematics, including the elements of the Calculus.
4. Chemistry D119a and D119b, together with fifteen or more hours in other C and D courses in Chemistry.
5. In certain cases a special examination covering the general field of Chemistry.

A breakage deposit of \$7.50 is required of all students taking laboratory courses. At the conclusion of the work, the deposit, less breakage, is returned.

GENERAL CHEMISTRY

A1a, A1b. THE ELEMENTS OF CHEMISTRY. An introductory course intended for those who have no previous knowledge of the subject.

To be accompanied by Chemistry A2 and A4.

Both semesters. II.

Professor Lyman.

A2. GENERAL LABORATORY WORK, to accompany A1a.

Laboratory, two periods a week.

First semester. 2 hours. Laboratory chosen from T, W, Th, F, 1:15-4:10.

Miss Haury.

Laboratory fee, \$10.00.

A3. SYSTEMATIC INORGANIC CHEMISTRY, covering chiefly the metallic elements.

To be accompanied by Chemistry A4.

First semester. III.

Professor Lyman.

A4. INORGANIC PREPARATIONS. To accompany Chemistry A3 or A1b.

Laboratory, two periods a week.

Either semester. 2 hours. Laboratory chosen from T, W, Th, F, 1:15-4:10.

Miss Haury. Second semester, Miss Lawrence.

Laboratory fee, \$10.00.

A5. SYSTEMATIC INORGANIC CHEMISTRY, covering chiefly the non-metallic elements.

To follow Chemistry A3, and to be accompanied by Chemistry B6.

Second semester. 2 hours. III. M. W.

Professor Lyman.

D120a, D120b. CHEMISTRY CONFERENCE.

Prerequisites: Quantitative and Organic Chemistry.

Both semesters. 1 hour each. A.

The Chemical Teaching Staff.

D219a, D219b. TEACHING OF CHEMISTRY.

Both semesters. 1 hour each. A.

Professor Lyman and Associate Professor Bartlett.

SOIL CHEMISTRY

B20, B21. SOIL SCIENCE.

Prerequisite: One year of College Chemistry.

Two class and one laboratory periods a week.

T, Th. IV. Laboratory, T, 1:15-4:10.

Assistant Professor Woodford.

Laboratory fee, \$6.00 each.

ANALYTICAL CHEMISTRY

B6. SYSTEMATIC QUALITATIVE ANALYSIS.

To be accompanied by Chemistry A5.

One class and two laboratory periods a week.

Either semester. F. III. Laboratory, two periods, chosen from T, W, Th, F, 1:15-4:10.

Associate Professor Bartlett.

Laboratory fee, \$10.00.

B7. ELEMENTARY QUANTITATIVE ANALYSIS. Designed to give some training in both gravimetric and volumetric analytical processes, and the solution of stoichiometrical problems.

Prerequisite: Chemistry B6.

One class and two laboratory periods a week.

Either semester. 3 hours. T, X. Laboratory, two periods, chosen from T, W, Th, F, 1:15-4:10.

Associate Professor Bartlett.

Laboratory fee, \$10.00.

C108. ADVANCED GRAVIMETRIC ANALYSIS.

Prerequisite: Chemistry B7.

One class and three laboratory periods a week.

Either semester. 4 hours. W, I. Laboratory, three periods, chosen from T, W, Th, F, 1:15-4:10.

Associate Professor Bartlett.

Laboratory fee, \$10.00.

C111. ADVANCED VOLUMETRIC ANALYSIS AND ELECTRO-ANALYSIS.

Prerequisite: Chemistry B7.

One class and three laboratory periods a week.

Either semester. 4 hours. W, I. Laboratory, three periods, chosen from T, W, Th, F, 1:15-4:10.

Associate Professor Bartlett.

Laboratory fee, \$10.00.

C117a. FOOD ANALYSIS. A laboratory course.

Prerequisites: Chemistry B7, C109 and C110.

One class and two laboratory periods a week.

First semester.

Miss Haury.

Laboratory fee, \$10.00.

(Not given in 1920-1921.)

D112. ADVANCED QUANTITATIVE ANALYSIS. A continuation of Chemistry C108 and C111.

Prerequisite: Chemistry C108 and C111.

Conferences and three laboratory periods a week.

First semester. Laboratory to be chosen from T, W, Th, F, 1:15-4:10.

Associate Professor Bartlett.

Laboratory fee, \$12.00.

D113. GAS ANALYSIS.

Prerequisite: Chemistry C108 and C111.

Conferences and three laboratory periods a week.

Second semester. Laboratory, chosen from T, W, Th, F, 1:15-4:10.

Associate Professor Bartlett.

Laboratory fee, \$12.00.

ORGANIC CHEMISTRY

B9. SYSTEMATIC ORGANIC CHEMISTRY.

Prerequisites: Chemistry A1b or A5.

First semester. VII.

Professor Lyman.

B10. LABORATORY WORK IN ORGANIC CHEMISTRY.

To accompany Chemistry B9.

First semester. 1 or 2 hours. Laboratory chosen from T, W, Th, F, 1:15-4:10.

Miss Lawrence.

Laboratory fee, \$6.00 for the first hour; \$4.00 for the second hour.

C109. SYSTEMATIC ORGANIC CHEMISTRY. A continuation of Chemistry B9.

Prerequisite: Chemistry B9.

Second semester. VII.

Professor Lyman.

C110. LABORATORY WORK IN ORGANIC CHEMISTRY. A continuation of Chemistry B10, but taking up cyclic compounds.

To accompany Chemistry C109.

Second semester. 1 or 2 hours. Laboratory, chosen from T, W, Th, F, 1:15-4:10.

Miss Lawrence.

Laboratory fee, \$6.00 for the first hour; \$4.00 for the second hour.

D114. ADVANCED ORGANIC CHEMISTRY.

Prerequisite: Chemistry C110.

One class and two laboratory periods a week.

First semester. T, VI. Laboratory, two periods. A.

Professor Lyman.

Laboratory fee, \$10.00.

D115. PHYSIOLOGICAL AND FOOD CHEMISTRY.

Prerequisites: Chemistry C109 and C110.

Two lectures and one laboratory period a week.

Second semester. A.

Professor Lyman.

Laboratory fee, \$6.00.

D214-D215. RESEARCH IN ORGANIC CHEMISTRY.

Prerequisite: Chemistry D114.

Occasional lectures and conferences; laboratory work.

Both semesters. 2 to 6 hours each. A.

Professor Lyman.

Laboratory fee, \$6.00 to \$15.00 each.

PHYSICAL CHEMISTRY

D119a, D119b. PHYSICAL CHEMISTRY.

Prerequisites: Chemistry C108 or C111, C109 and C110. College Physics and Calculus must precede or accompany this course. A reading knowledge of French and German is very desirable.

Two class and one laboratory periods a week.

Both semesters. T, Th. VIII. Laboratory, one period. A.

Associate Professor Bartlett.

Laboratory fee, \$8.00.

D217a, D218b. PHYSICAL CHEMISTRY RESEARCH.

Prerequisite: Chemistry D119a, D119b.

Both semesters. 2 to 6 hours.

Associate Professor Bartlett.

Laboratory fee, \$6.00 to \$12.00 each.

CONSTITUTIONAL HISTORY

(See Political Science and Law)

ECONOMICS AND SOCIOLOGY

A2a, A2b. ECONOMIC AND FINANCIAL HISTORY.

Prerequisite: Three units of High School History or one year of College History.

Both semesters. I.

Assistant Professor Thomson.

B1a, B1b. INTRODUCTION TO ECONOMICS.

Both semesters. II, V.

Mr. Livingston.

B3. PRINCIPLES OF ECONOMICS.

First semester. VII.

Assistant Professor Burgess.

B31a, B31b. ACCOUNTING.

Both semesters. VII.

Assistant Professor Thomson.

C132a, C132b. ADVANCED ACCOUNTING.

Both semesters. IV.

Assistant Professor Thomson.

C104. MONEY AND BANKING.

Prerequisite: Economics B1 or B3.

First semester. III.

Assistant Professor Burgess.

C105. BANKING AND FOREIGN EXCHANGE.

Second semester. III.

Assistant Professor Burgess.

C106. PUBLIC FINANCE.

Second semester.

Professor Sumner.

(Not given in 1920-1921.)

C108. PROBLEMS OF LABOR.

Prerequisites: Economics B1 or B3.

Second semester. I.

Professor Sumner.

C115. PRINCIPLES OF FOREIGN TRADE.

Second semester. V.

Assistant Professor Burgess.

C109. CORPORATION FINANCE.

Prerequisites: Economics B1 or B3.

First semester. II.

Assistant Professor Burgess.

D107. TRUST PROBLEMS.

First semester. I.

Assistant Professor Burgess.

D110. RAILROAD TRANSPORTATION.

First semester.

Assistant Professor Burgess.

(Not given in 1920-1921.)

D111. INVESTMENTS.

Prerequisite: Economics C109.

Second semester. II.

Assistant Professor Burgess.

D113. OCEAN TRANSPORTATION.

Normally follows Economics D110.

Second semester.

Assistant Professor Burgess.

(Not given in 1920-1921.)

D119a, D119b. ECONOMICS SEMINAR.

Both semesters. 1 hour each. F, IX.

Professor Sumner.

D114. ELEMENTS OF MARKETING.

Second Semester. I.

Assistant Professor Burgess.

B21a, B21b. ELEMENTS OF SOCIOLOGY.

Both semesters. VI.

Professor Sumner.

C125. POOR RELIEF.

First semester. I.

Professor Sumner.

C128. CITY PROBLEMS.

Second semester. VII.

Professor Sumner.

C129. STATISTICS.

First semester.

Professor Sumner.

(Not given in 1920-1921.)

D126. CRIMINOLOGY.

Normally follows Economics C125.

Second semester. II.

Professor Neely.

D127. THEORIES OF SOCIAL REFORM.

First semester. IV.

Professor Sumner.

D130. IMMIGRATION.

Second semester. IV.

Professor Sumner.

D112. SOCIAL PSYCHOLOGY.

Second semester. VI.

Professor Ewer.

D201. HISTORY OF ECONOMICS.

First semester. W, IX and M, 7:00-9:00 P.M.

Professor Sumner.

D202. ECONOMIC THEORY.

Second semester. W, IX and M, 7:00-9:00 P.M.

Professor Sumner.

D219a, D219b. THE TEACHING OF ECONOMICS.

Both semesters. 1 hour each.

Professor Sumner.

(Not given in 1920-1921.)

EDUCATION

For courses in General Psychology see the Department of Psychology.

B1. PSYCHOLOGY.

Either semester.

First semester III. Second semester V.

Professor Ewer.

B3. PRINCIPLES OF EDUCATION.

First semester. VI.

Assistant Professor Nicholl.

B14. ELEMENTARY EDUCATION.

Second semester. 2 hours. W, F, I.

Assistant Professor Nicholl.

C107. EDUCATIONAL PSYCHOLOGY.

Prerequisite: Psychology B1.

First semester. V.

Professor Ewer.

C111. HISTORY OF EDUCATION.

First semester. V.

Professor Norton.

C112. HISTORY OF EDUCATION.

Second semester. V.

Professor Norton.

C115. SECONDARY EDUCATION.

First semester. 2 hours. M, W, XIII.

Assistant Professor Nicholl.

C118. APPLICATIONS OF PSYCHOLOGY. See Psychology
C118.

Second semester. III.

Professor Ewer.

C119. SCHOOL MANAGEMENT.

Either semester. 1 hour. W, I.

Assistant Professor Nicholl.

D104. PHILOSOPHY OF EDUCATION.

Second semester. VI.

Assistant Professor Nicholl.

D116. PUBLIC SCHOOL ADMINISTRATION.

Second semester. V.

Professor Williams.

D110. PRACTICE TEACHING. Observation, practice in teaching, conferences.

Senior year, either semester. 4 hours. A.

Mr. Hill.

D212. RURAL EDUCATION.

First semester. 2 hours.

Mr. Hill.

(Not given in 1920-1921.)

D214. EDUCATION SEMINAR.

Second semester. 2 hours. A.

Mr. Hill.

D210. PRACTICE TEACHING. Arrangements are made to do practice teaching in the Claremont, Chaffey Union and Pomona High Schools. Frequent conferences and discussions of problems.

Either semester. 4 hours. A.

Mr. Hill.

D217. MENTAL MEASUREMENTS.

First semester. III.

Professor Williams.

D218. EXPERIMENTAL PSYCHOLOGY. A continuation of Education, D217.

Second semester. III.

Professor Williams.

For courses in the teaching of specific subjects, see Art D219a, D219b; Biology D219; Chemistry D219a, D219b; Economics D219a,

D219b; English D219; French D219a, D219b; History D219; Latin D219; Mathematics D219; Music D219; Physical Education C133a, C133b, D134a, D134b, and Spanish D219a, D219b.

ENGINEERING

The College does not give at present a full technical course in engineering; but for students who contemplate engineering work and wish also the foundation and culture of college training a course of studies has been arranged. Graduates who have followed this course complete their work for a degree in the standard schools of engineering and technology in two years.

A1a, A1b. GRAPHICS. A course in lettering and linear drawing, etc.

Both semesters. 2 hours each. Laboratory, T, Th, 1:15-4:10.

Assistant Professor Belcher.

In case a student offers for credit other work in Graphics instead of Engineering A1, the certificate of former work must be accompanied by the plates drawn and the instructor will judge whether the character and amount of work done are satisfactory. This must in every case include evidence of ability in lettering.

B3a, B3b. GRAPHICS. An introductory course in orthographic and isometric projections, shade lines and shadows.

Prerequisite: Engineering A1.

Two exercises a week, both semesters. 2 hours each. Laboratory, T, Th, 1:15-4:10.

Assistant Professor Belcher.

B7a, B7b. ANALYTIC GEOMETRY AND CALCULUS.

See Mathematics B7a and B7b.

B11a, B11b. SURVEYING. Class room work, field work, etc.

Prerequisites: Mathematics B7 and Engineering A1.

Both semesters. W, F, 1:15-4:10.

Assistant Professor Belcher.

C108a, C108b. ADVANCED ANALYTIC GEOMETRY AND CALCULUS.

See Mathematics C108a, C108b.

C115. DESCRIPTIVE GEOMETRY.

Alternates with Engineering B11a. Prerequisite: Engineering A1. First semester.

Assistant Professor Belcher.

(Not given in 1920-1921.)

C116. PERSPECTIVE.

Alternates with Engineering B11b. Prerequisite: Engineering C115.

Second semester.

Assistant Professor Belcher.

(Not given in 1920-1921.)

D113 and D114. APPLIED MECHANICS.

Both semesters.

Assistant Professor Taylor.

(Not given in 1920-1921.)

ENGLISH

ENGLISH COMPOSITION AND RHETORIC

A21a, A21b. COMPOSITION. Elementary course required of those who are deficient in the use of English.

Both semesters. Two sections. V and VI.

Assistant Professor Edwards.

A22a, A22b. COMPOSITION. A study of the elements of effective prose composition. Required of all freshmen not taking English A21, unless by entrance test they show a command over English expression.

Both semesters. Five sections.

I, Assistant Professor Ament; IV, VI, Miss Hayward; IV, V, Assistant Professor Fitts.

A24a, A24b. COMPOSITION. Special attention to commercial correspondence. This course does not meet the English Composition requirement.

Prerequisite: English A21 or equivalent.
Both semesters. 2 hours each. T, S, VI.
Assistant Professor Thomson.

A51a, A51b. ENGLISH FOR FOREIGNERS.
Both semesters. I.
Miss Hayward.

B23. COMPOSITION.
Prerequisite: C grade or better in English A22 or equivalent.
First semester. V.
Professor Frampton and Miss Hayward.

C125. ESSAY.
Second semester. III.
Assistant Professor Ament.

C126. JOURNALISM.
(May be taken as a one-hour course by those on the staff of College publications.)
Both semesters. M, F, VII, Th, X.
Assistant Professor Edwards.

C128. THE SHORT STORY.
Open to Sophomores who have had English B23, and to upper-classmen.
Second semester. V.
Professor Frampton and Miss Hayward.

D227. LITERARY CRITICISM.
First semester. T, X, XII, F, IX.
Professor Frampton.

D229. WRITING OF PLAYS.
First semester. III.
Assistant Professor Ament.

D230. COMPOSITION SEMINAR.

Students must obtain the written consent of the teacher prior to registration.

Second semester. T, X, XII, F, IX.

Professor Frampton.

ARGUMENTATION AND PUBLIC ADDRESS**A35a, A35b. ELEMENTARY PUBLIC ADDRESS.**

Both semesters. 2 hours each. M, F, III.

Assistant Professor Shepard.

A36a, A36b. FUNDAMENTALS OF EXPRESSION.

Both semesters. 2 hours each. T, Th, IV.

Assistant Professor Shepard.

B31a, B31b. ARGUMENTATION.

Both semesters. 2 hours each. T, S, IV.

Assistant Professor Edwards.

B32a, B32b. PUBLIC ADDRESS.

Prerequisite: English A35a, A35b, or A36a, A36b.

Both semesters. 2 hours each. W, F, IX.

Assistant Professor Shepard.

C133. ADVANCED ARGUMENTATION.

Second semester.

Professor Frampton.

(Not given in 1920-1921.)

C131a, C131b. PRACTICAL PUBLIC SPEAKING.

Prerequisite: English B32 or equivalent.

Both semesters. 2 hours each. M, F, VII.

Assistant Professor Shepard.

C134a, C134b. INTERPRETIVE READING OF DRAMATIC LITERATURE.

Prerequisite: English A36a, A36b, or equivalent.

Both semesters. VIII.

Assistant Professor Shepard.

ENGLISH LANGUAGE

Students who elect English Language as a major are required to offer English C141, D142 and D144; and, from the Department of English Literature, English A2, or B3. They will ordinarily be expected to offer also English B6. The requirements for the major in English Literature are stated under that Department. Advice as to other work should be sought from the head of the Department. Students will be admitted to C and D courses in this Department who have done satisfactory work in B and C courses in the Department of English Literature.

C141. ANGLO-SAXON.

Required of students whose major is English.

First semester. IV.

Professor Frampton.

D142. BEOWULF.

Required of those whose major is English Language. Pre-requisite: English C141.

Second semester. IV.

Professor Frampton.

D144. CHAUCER.

It is desirable, though not necessary, that those who elect this course shall have had English C141 and English B6. Given in alternate years. Required of those whose major is English Language.

Second semester.

Professor Frampton.

(Not given in 1920-1921.)

D219. THE TEACHING OF ENGLISH.

Either semester. 2 hours. M, XI; W, X.

Assistant Professor Fitts.

ENGLISH LITERATURE

Students who make English Literature their major subject are required to take from the Department of English Language courses C141 and D142 or D144, and from the Department of English Literature courses B3, C107 or C108, two courses from C109, C110, C119

and D120, and two courses from D105, D106, D115 and D116. They should consult the head of the Department regarding their choice of courses and other work. The requirements for the major in English Language are given under that Department.

A1a, A1b. NINETEENTH CENTURY ENGLISH AND AMERICAN LITERATURE.

Both semesters. II.

Miss Hayward.

A2a, A2b. HISTORICAL SURVEY OF ENGLISH LITERATURE.

Recommended to students who have not had a high school course in the history of English literature and who do not plan to major in English.

Both semesters. IV.

Assistant Professor Ament.

B3. DEVELOPMENT OF ENGLISH LITERATURE.

Required of students whose major is English Literature.

Prerequisite: English A1 or equivalent; working knowledge of English history.

First semester. IV.

Professor Spalding.

B4. SHAKESPEARE. A rapid reading course.

Second semester. IV.

Professor Spalding

B5a, B5b. NINETEENTH CENTURY LITERATURE.

Open only to those who have had a course in the History of English Literature.

Both semesters. V.

Assistant Professor Ament.

B6. MEDIEVAL LITERATURE.

Recommended to those who major in English Language, as preparation for English D144. Open to those who have a knowledge of English History.

First semester.

Professor Frampton.

(Not given in 1920-1921.)

B13a, B13b. GREEK LITERATURE AND LIFE.

The same as Greek B13. In exceptional cases this course may be substituted for English B3 and B4.

Both semesters. VI.

Professor Norton.

B17a, B17b. ROMAN LIFE AND LITERATURE.

The same as Latin B17a, B17b. In some cases this course may be substituted for English B3 and B4.

Both semesters. III.

Professor Robbins.

C107. AMERICAN LITERATURE.

First semester. II.

Assistant Professor Ament.

C108. THE ENGLISH NOVEL.

Second semester. II.

Assistant Professor Ament.

C109. ENGLISH LITERATURE OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES, with Poetics.

First semester.

Professor Spalding.

(Not given in 1920-1921.)

C110. ROMANTIC PERIOD OF ENGLISH LITERATURE.

Second semester.

Professor Spalding.

(Not given in 1920-1921.)

C119. BROWNING.

Open to students with a working knowledge of Victorian literature.

First semester. VI.

Professor Spalding.

D120. PRESENT-DAY ENGLISH AND AMERICAN POETRY.

Open to students who have had the equivalent of two courses in poetry, and with the written consent of the instructor.

Second semester. VI.

Professor Spalding.

D105. SHAKESPEARE. Intensive study of selected plays.

Required of students whose major is English Literature.

Prerequisite: English B4 or its equivalent.

First semester. III.

Professor Spalding.

D115. SHAKESPEARE'S ENGLISH CHRONICLE PLAYS.

Alternates with English D116. Prerequisite: English D105; History B7.

Second semester.

Professor Spalding.

(Not given in 1920-1921.)

D216. SEMINAR IN LITERATURE.

Alternates with D115.

Second semester.

Professor Spalding.

D202. MASTERPIECES IN ENGLISH.

First semester.

Professor Spalding.

D111. HISTORY OF THE ENGLISH DRAMA TO 1642.

Complementary to English D105 and D106.

First semester.

Professor Frampton.

(Not given in 1920-1921.)

D112. ENGLISH DRAMA FROM 1660 TO THE PRESENT. A continuation of English D111.

Second semester.

Assistant Professor Ament.

(Not given in 1920-21.)

GEOLOGY

B1. PHYSICAL GEOLOGY. Dynamic and structural.

Prerequisites: Chemistry A2, or High School Chemistry and Physics.

Class room, two hours a week; laboratory, or field work, one period a week.

First semester. M, W, I. Laboratory, W or Th, 1:15-4:10.

Assistant Professor Woodford.

Laboratory fee, \$3.00.

B2. HISTORICAL GEOLOGY.

Prerequisite: Geology B1.

Second semester. Class, M, W, I. Laboratory or field work, W or Th, 1:15-4:10.

Assistant Professor Woodford.

Laboratory fee, \$3.00.

B3. DETERMINATIVE MINERALOGY.

Prerequisite: Chemistry A1 or equivalent.

Either semester. Two laboratory periods, 2 hours. A.

Assistant Professor Woodford.

Laboratory fee, \$4.00.

C105. CRYSTALLOGRAPHY.

Prerequisite: Chemistry A1 or equivalent.

Must be preceded or accompanied by Geology B3.

First semester. 2 hours. M, W, V.

Assistant Professor Woodford.

C106. DESCRIPTIVE MINERALOGY.

Prerequisites: Geology B3 and C105.

Second semester. M, W, V. Laboratory, T, 1:15-4:10.

Assistant Professor Woodford.

Laboratory fee, \$4.00.

GERMAN

A1a, A1b. ELEMENTARY COURSE.

Both semesters. III.

Professor Bissell.

A2a, A2b. INTERMEDIATE COURSE.

Primarily for those entering with only one unit of recommended German. May be required of others who show special need of the type of drill given.

Both semesters.

Professor Bissell.

(Not given in 1920-1921.)

B3a, B3b. PROSE NARRATIVE AND DRAMA.

Prerequisite: German A1, or two years of elementary German.

Both semesters. VI.

Professor Bissell.

B4a, B4b. GERMAN COMPOSITION.

May be required of those deficient in German.

Both semesters. 1 hour each.

Associate Professor Churchill.

(Not given in 1920-1921.)

B6a, B6b. GERMAN COMPOSITION. Advanced narrative prose.

For students of good standing.

Both semesters. 1 hour each.

Associate Professor Churchill.

(Not given in 1920-1921.)

C109a-C109b. GERMAN NOVEL OF THE NINETEENTH CENTURY.

Prerequisite: German B3 or equivalent.

Both semesters. I.

Professor Bissell.

C110a, C110b. GERMAN COMPOSITION AND CONVERSATION.

Required of those making German their major. Prerequisites: German B3, or equivalent, and German B6.

Both semesters. 1 hour each.

Professor Bissell.

(Not given in 1920-1921.)

C111. SCIENTIFIC GERMAN.

Intended primarily for those planning to do graduate work leading to the degree of Doctor of Philosophy. Prerequisite: German C9 or equivalent.

Second semester. A.

Professor Bissell.

D113. LESSING.

First semester. IV.

Professor Bissell.

D114. GOETHE.

Prerequisite: German D113.

Second semester. IV.

Professor Bissell.

D115. OUTLINE COURSE IN THE HISTORY OF GERMAN LITERATURE AND LANGUAGE TO THE AGE OF LESSING.

Prerequisite: German C109 or equivalent.

First semester.

Professor Bissell.

(Not given in 1920-1921.)

D116. GERMAN LITERATURE FROM LESSING TO THE DEATH OF GOETHE.

Prerequisite: German D115.

Second semester.

Professor Bissell.

(Not given in 1920-1921.)

D112. GERMAN COMPOSITION. Advanced course.

Required of all who desire the recommendation of the Department as teachers. Prerequisite: German C110.

First semester.

Professor Bissell.

(Not given in 1920-1921.)

D117. MODERN DRAMA.

First semester.

Professor Bissell.

(Not given in 1920-1921.)

D118. MODERN FICTION.

Second semester.

Professor Bissell.

(Not given in 1920-1921.)

GREEK

B1 and B2. ELEMENTARY GREEK.

Both semesters. IX.

Professor Robbins.

B2a, B2b. GREEK COMPOSITION.

Required of those who make Greek their major.

Both semesters. 1 hour each.

Professor Norton.

(Not given in 1920-1921.)

B3. LYSIAS.

First semester. XI.

Professor Robbins.

B4. PLATO. Apology and Crito with selections from
Phaedo (Kitchel), Homer, Odyssey.

Second semester. XI.

Professor Robbins.

C105. AESCHYLUS AND SOPHOCLES. Prometheus and
Oedipus the King.

First semester. IV.

Professor Norton.

C106. DEMOSTHENES.

First semester.

Professor Norton.

(Not given in 1920-1921.)

C107. HELLENISTIC GREEK.

First semester.

Professor Norton.

(Not given in 1920-1921.)

D8. HOMER.

Alternates with Greek D10.

Second semester. A.

Professor Norton.

D9. PLATO, PHAEDO AND PROTAGORAS.

Alternates with Greek C7.

First semester.

Professor Norton.

(Not given in 1920-1921.)

D10. THUCYDIDES. BOOKS VI AND VII.

Alternates with Greek D8.

Second semester. A.

Professor Norton.

D11a, D11b. PROSE COMPOSITION AND SIGHT READING.

Required of all making Greek a major.

Both semesters. 1 hour each.

Professor Norton.

(Not given in 1920-1921.)

B13a-B13b. GREEK LITERATURE AND LIFE. This course is open to those who have no knowledge of the Greek language.

Both semesters. VI.

Professor Norton.

HISTORY

Students wishing to major in History shall present their programs to the head of the department for approval. They must offer at least 24 hours in the department, of which 18 are C and D work, and at least 6 hours in the allied departments of Economics or Political Science; they shall also present such credit in modern language as may be deemed wise in each individual case.

A1a, A1b. GENERAL EUROPEAN HISTORY.

Both semesters. I.

Professor Westergaard and Mr. Livingston.

B2a, B2b. EARLY EUROPEAN HISTORY (476-1648).

Both semesters. II.

Professor Westergaard.

B3. ANCIENT CLASSICAL HISTORY.

First semester.

Professor Stearns.

(Not given in 1920-1921.)

B4. ANCIENT CLASSICAL HISTORY. (Continued.)

Second semester.

Professor Stearns.

(Not given in 1920-1921.)

B7. ENGLISH HISTORY TO 1783.

First semester.

Mr. Livingston.

(Not given in 1920-1921.)

B21. ANCIENT ORIENTAL HISTORY. Babylonia, Assyria,
Egypt.

First semester. III.

Professor Stearns.

B22. ANCIENT ORIENTAL HISTORY. Persia, Palestine.

Second semester.

Professor Stearns.

(Not given in 1920-1921.)

C108. THE BRITISH EMPIRE.

Second semester.

Mr. Livingston.

(Not given in 1920-1921.)

C107a, C107b. AMERICAN HISTORY.

Both semesters. III.

Mr. Livingston.

C113. MODERN EUROPEAN HISTORY (1648-1815).

First semester. VII.

Professor Westergaard.

D114. MODERN EUROPEAN HISTORY (1815-1914).

Second semester. VII.

Professor Westergaard.

D127a, D127b. AMERICAN HISTORY.

Both semesters.

Professor Westergaard.

(Not given in 1920-1921.)

D129. EARLY AMERICAN CARTOGRAPHY AND EXPLORATION.

Prerequisite: Two years of college history.

Second semester. 2 hours. W, F, IX.

Mr. Marriott.

D230. SEMINAR IN HISTORY.

Required of those seeking a departmental Major in History.

Second semester. 2 hours. T, IX, XI.

Professor Westergaard.

D219. THE TEACHING OF HISTORY.

First semester. 2 hours. T, IX, XI.

Professor Westergaard.

For classes in American Government, American Colonial Government, American Diplomacy and Constitutional History, see the Department of Political Science and Law. For courses in Hebrew History, Church History and History of Religions, see the Department of Biblical History and Literature. For courses in Economic History, see Economics A2a, A2b, and for History of Philosophy, see Philosophy C125 and C126.

ITALIAN

(*See Romance Languages.*)

LATIN

A1a, A1b. ELEMENTARY LATIN.

Both semesters. II.

Professor Colcord.

A2a, A2b. VERGIL AND CICERO.

Prerequisite: Latin A1a, A1b or equivalent.

Both semesters. VII.

Professor Robbins.

B3. CICERO AND LIVY. Cicero; De Senectute and De Amicitia; Livy; (Westcott) Books XXI and XXII.

First semester. VI.

Professor Colcord.

B5. HORACE.

Second semester. VI.

Professor Colcord.

B4a, B4b. LATIN COMPOSITION.

Required of all making Latin their major.

Both semesters. 1 hour each. T, XII.

Professor Robbins.

B17a, B17b. ROMAN LIFE AND LITERATURE.

Both semesters. III.

Professor Robbins.

C106. PLINY. Letters; Tacitus; Agricola and Germania.

First semester. IV.

Professor Colcord.

C107. PLAUTUS. Captivi; Trinummus; Terence; Adelphoi; Andria.

Second semester. IV.

Professor Colcord.

C108a, C108b. LATIN COMPOSITION. Connected narrative.

Required of all making Latin their major.

Prerequisite: Latin B4.

Both semesters. 1 hour each. A.

Professor Colcord.

D109. CICERO. Letters, Tusculan Disputations. Roman satire; Persius, Martial and Juvenal. History of Roman satire.

First semester. VIII.

Professor Colcord.

D110. CATULLUS; LUCRETIVS; TIBULLUS; PROPERTIVS;
OVID; LUCAN (Crowell).

Second semester. VIII.

Professor Colcord.

D111. TACITUS. Histories and Annals.

First semester.

Professor Colcord.

(Not given in 1920-1921.)

D112. VERGIL. Bucolics and Aeneid, Books VII-XII.
Ovid. Selections. Christian and Latin Hymns.

Second semester.

Professor Colcord.

(Not given in 1920-1921.)

D114a, D114b. LATIN COMPOSITION. Original papers.

Required of those making Latin their major.

Prerequisite: Latin C8.

Both semesters. 1 hour each. Th, IV.

Professor Robbins.

D219. THE TEACHING OF LATIN.

First semester. 2 hours. A.

Professor Colcord.

D220. SPECIAL LATIN. The nature of the course varies
from year to year to meet the needs of the students.

Second semester. A.

Professor Colcord.

LAW

(See Political Science and Law.)

MATHEMATICS

The courses in Mathematics designated A1, A2, B3, B4, A5 and B7 are intended primarily for Freshmen. Students who enter with credit for three and a half or four units of commended work in Mathematics, including solid geometry and trigonometry, may take

Mathematics B6, B7 or B13. Mathematics B7 is required of students in Engineering. Students who wish to take further work in Mathematics, but who have not sufficient preparation for Mathematics B7 or B13, may take Mathematics A1 and A2, or B3a and B3b, or A4 and A2, according to their preparation and need. Mathematics A5a and A5b are intended primarily for those who do not expect to take further work in the subject.

A1. SOLID GEOMETRY.

Second semester. IV.

Assistant Professor Taylor.

A2. PLANE TRIGONOMETRY.

Either semester. First semester IV. Second semester III.

Associate Professor Russell and Assistant Professor Taylor.

B3a, B3b. ALGEBRA.

Prerequisite: Two years of High School Algebra.

Both semesters. V.

Associate Professor Russell.

A5a, A5b. ELEMENTARY ANALYSIS.

Both semesters, two divisions. III, V.

Assistant Professor Berry.

A4. ALGEBRA. A semester course in second year algebra, designed for those who have studied algebra only a year.

First semester. III.

Associate Professor Russell.

B6. ADVANCED AND SPHERICAL TRIGONOMETRY.

Prerequisite: Plane trigonometry.

First semester.

Associate Professor Russell.

(Not given in 1920-1921.)

B7a, B7b. ANALYTIC GEOMETRY AND CALCULUS. A course designed especially for students of physics and engineering.

Both semesters. VII.

Assistant Professor Taylor.

B13a-B13b. ANALYTIC GEOMETRY AND CALCULUS.

Designed to follow Mathematics A1 and A2, B3 or A4 and A2.

Both semesters. VI.

Associate Professor Russell.

C108a, C108b. ADVANCED ANALYTIC GEOMETRY AND CALCULUS. A continuation of B7a, B7b.

Both semesters. VI.

Assistant Professor Taylor.

C115a, C115b. DIFFERENTIAL AND INTEGRAL CALCULUS. A continuation of Mathematics B13a, B13b.

Both semesters. VII.

Associate Professor Russell.

D119. THEORY OF EQUATIONS.

First semester. IV.

Associate Professor Russell.

D120. DIFFERENTIAL EQUATIONS.

Second semester. IV.

Associate Professor Russell.

D121a, D121b. HIGHER ANALYSIS. The content of this course differs from year to year.

Both semesters.

Professor Brackett.

(Not given in 1920-1921.)

D227a, D227b. PROJECTIVE GEOMETRY.

Both semesters. V.

Professor Brackett.

D219. THE TEACHING OF MATHEMATICS.

First semester. 2 hours. T, Th, VIII.

Professor Brackett.

MILITARY TRAINING

This institution maintains an Infantry unit, senior division, of the Reserve Officers' Training Corps. Enrollment in the basic course,

during the Freshman and Sophomore years, is required of all physically fit male students. Those first taking this basic course in Sophomore year are required to continue the same in Junior year. The advanced course, for Junior and Senior years, is open to selected students, who have completed the basic course, and who sign an agreement to attend the advanced camp for six weeks during one summer vacation. Men in the advanced course receive commutation of rations, about fifteen dollars a month, from the Government, for two college years and the summer vacation between; receive nominal pay in camp, and may be commissioned in the Officers' Reserve Corps upon graduation. All students in the R. O. T. C. are furnished uniforms without cost.

A1a, A1b. BASIC COURSE. Elementary subjects of Military Training; Infantry drill; Infantry weapons and equipment (the pack, the rifle, the bayonet); Minor Tactics.

Both semesters. $1\frac{1}{2}$ hours each. Th, or S, VIII, M, 1:15-3:10.
Major Ayer and Assistants.

B3a, B3b. BASIC COURSE. Military Map Reading and Sketching, Infantry Drill, Infantry Weapons (the rifle, automatic rifle, machine gun); Minor Tactics.

Both semesters. $1\frac{1}{2}$ hours each. F, I or VII or IX. M, 1:15-3:10.
Major Ayer and Assistants.

C105a, C105b. ADVANCED COURSE. Field Engineering, etc., Infantry Drill, Infantry Weapons (the pistol, hand and rifle grenades, trench mortars and one-pounder gun); Minor Tactics.

Junior year, both semesters. $3\frac{1}{2}$ hours each. A.
Major Ayer and Assistants.

D107a, D107b. ADVANCED COURSE. Military Law and Rules of Land Warfare, etc.

Senior year, both semesters. $3\frac{1}{2}$ hours each. A.
Major Ayer and Assistants.

One hour of C105 and D107 may be taken in connection with courses in other departments.

MUSIC

HISTORY AND THEORY OF MUSIC

Courses in the History and Theory of Music are granted credit on the same basis as other college studies, and proficient students may major in either theoretical or applied music under conditions arranged in consultation with the head of the department.

A1a, A1b. ELEMENTARY MUSIC AND EAR TRAINING.

Three recitations to count as two hours.

Both semesters. 2 hours each. Two divisions, II, IV.

Assistant Professor Allen and Miss Hart.

B3a, B3b. MUSICAL HISTORY AND APPRECIATION.

Both semesters. XI.

Assistant Professor Allen.

B5a, B5b. HARMONY.

Prerequisite: Music A1, and an elementary knowledge of the pianoforte.

Both semesters. Two sections, VII, IX.

Assistant Professor Allen.

B12. MUSIC APPRECIATION. Elementary course.

Prerequisite: Music A1 or equivalent.

First semester. XIII.

Professor Bissell.

C107a, C107b. COMPOSITION I.

Prerequisite: Music B5.

Both semesters. 3 hours each. VI.

Assistant Professor Allen.

C112. MUSIC APPRECIATION. Advanced course.

Prerequisite: Music B5a and B12 or equivalent.

Second semester. XII.

Professor Bissell.

C113a, C113b. ORCHESTRATION.

Designed especially to meet the needs of a student desiring the State Certificate.

Both semesters. XIII.

Associate Professor Hartley.

D108a, D108b. COMPOSITION II.

Prerequisite: Music C107.

Both semesters. A.

Associate Professor Hartley.

D219. PUBLIC SCHOOL MUSIC METHODS.

First semester. 2 hours. A.

Assistant Professor Colburn.

APPLIED MUSIC

Any student may take work in Applied Music, but is enrolled for credit only upon the written recommendation of the Chairman of the Examining Committee and the Head of the Department concerned, and upon the subsequent favorable action of the Classification Committee. This recommendation and the action of the committee are based upon the degree of ability shown in proficiency tests. (See Music Bulletin.) Work in Applied Music to receive credit must be carried with a minimum of two half-hour lessons weekly and must be accompanied or preceded by the theoretical courses A1 and B5. Under these conditions the applied work is rated as two hours for each semester. Not more than ten such hours may be counted toward the degree.

Voice—Professor Lyman and Miss Lee.

Organ—Associate Professor Hartley.

Piano—Associate Professor Hartley and Assistant Professor Colburn, Miss West and Miss Hart.

Stringed Instruments and Ensemble—Assistant Professor Zoellner.

PHILOSOPHY

B21. LOGIC.

First semester.

Professor Williams.

(Not given in 1920-1921.)

B23. THE ELEMENTS OF ETHICS.

Prerequisite: Psychology B1. Required of all not taking Philosophy C24.

Either semester. V.

Professor Denison.

C24. THE PRINCIPLES OF ETHICS. A course designed for more advanced students of Philosophy.

First semester.

Professor Denison.

(Not given in 1920-1921.)

C25. ANCIENT AND MEDIEVAL PHILOSOPHY.

First semester. VII.

Professor Denison.

C26. MODERN PHILOSOPHY.

Second semester. VII.

Professor Denison.

D27. INTRODUCTION TO PHILOSOPHY.

First semester. VI.

Professor Williams.

D28. METAPHYSICS.

Second semester.

Professor Williams.

(Not given in 1920-1921.)

D29. PHILOSOPHY OF RELIGION.

Second semester.

Professor Williams.

(Not given in 1920-1921.)

D30. CONTEMPORARY PHILOSOPHICAL PROBLEMS.

Second semester. VI.

Professor Denison.

PHYSICAL EDUCATION

A course of Physiology and Hygiene, described under the Department of Physiology as A1, Applied Physiology and Hygiene, is required of all. The courses are graded, systematic and progressive. Their purpose is to remedy ordinary physical defects, and develop endurance and co-ordination.

Courses A1 to C108, inclusive, and C131 are for men. Physical measurements are taken at the beginning and end of Freshman and Sophomore years, and are optional for Juniors and Seniors. They are designed primarily to determine vital strength and organic weakness, secondarily to determine muscular strength. The measurements obtained are plotted on anthropometrical tables to determine development and comparison with the average. Any individual who is below normal is given prescribed exercise.

A1a, A1b. ELEMENTARY GYMNASTICS.*

Freshman year, both semesters. $\frac{1}{2}$ hour each. T, Th, II or IV or VI.

Assistant Professors Schott and Nixon.

A2a, A2b. SPORTS.

Required of Freshmen not taking Military Drill.

Freshman year, both semesters. $\frac{1}{2}$ hour each. A.

Assistant Professors Schott and Nixon.

B3a, B3b. ADVANCED GYMNASTICS.*

Required, Sophomore year, both semesters. $\frac{1}{2}$ hour each. A.

Assistant Professor Schott and Assistants.

B4a, B4b. SPORTS.

Required of Sophomores not taking Military Drill.

Sophomore year, both semesters. $\frac{1}{2}$ hour each. A.

Assistant Professor Schott and Assistants.

C105a, C105b. SPORTS.

Junior year, both semesters. $\frac{1}{2}$ hour each. T, F, at 5:00.

Assistant Professors Schott and Nixon.

*The men in athletics are, upon recommendation of the coach, excused from actual participation in gymnastics during the period covered by the particular sport in which they are engaged.

C107a, C107b. SPORTS.

Senior year, both semesters. $\frac{1}{2}$ hour each. A.
Assistant Professors Schott and Nixon.

C131a, C131b. THEORY OF ATHLETICS.

Open to Senior men only, both semesters. 2 hours each. A.
Assistant Professors Schott and Nixon.

The work for women is at once educative and practical in its aims, endeavoring not only to correct abnormalities of structure and function, but to prevent their occurrence. Physical and medical examinations are required of all entering students; the physical examination is repeated at the end of the year.

A11a, A11b. GYMNASIUM PRACTICE.

Required, Freshman year. $\frac{1}{2}$ hour each. Two sections, M, F, VII, or M, W, XIII.

Assistant Professor Evans, Miss Goodrich and Miss Woodford.

A12a, A12b. OUTDOOR SPORTS. Two periods of outdoor sports, elected by the student subject to the approval of the director.

Required, Freshman year. $\frac{1}{2}$ hour each. A.

Assistant Professor Evans, Miss Goodrich and Miss Woodford.

B13a, B13b. GYMNASIUM PRACTICE.

Required, Sophomore year. $\frac{1}{2}$ hour each. Two sections, T, Th, VIII or XIV.

Assistant Professor Evans, Miss Goodrich and Miss Woodford.

B14a, B14b. OUTDOOR SPORTS. A continuation of A12. Two periods following the plan of A12.

Required, Sophomore year. $\frac{1}{2}$ hour each. A.

Assistant Professor Evans, Miss Goodrich and Miss Woodford.

B19. FOLK AND NATIONAL DANCING. One period; from November 1 to May 1.

Elective for Freshmen and Sophomores. $\frac{1}{2}$ hour.* A.

Assistant Professor Evans and Miss Goodrich.

C115a, C115b. SPORTS.

Junior year. $\frac{1}{2}$ hour each. A.

Assistant Professor Evans, Miss Goodrich and Miss Woodford.

C117a, C117b. SPORTS.

Senior year. $\frac{1}{2}$ hour each. A.

Assistant Professor Evans, Miss Goodrich and Miss Woodford.

C121. FOLK AND NATIONAL DANCING. One period;
from November 1 to May 1.

Prerequisite: Physical Education B19, or its equivalent.

Elective for Sophomores, Juniors, and Seniors. $\frac{1}{2}$ hour.* A.

Assistant Professor Evans and Miss Goodrich.

C123. AESTHETIC DANCING. One period; from November 1 to May 1.

Prerequisite: Physical Education C21, or its equivalent.

Elective for Juniors and Seniors. $\frac{1}{2}$ hour.* A.

Assistant Professor Evans and Miss Goodrich.

C125. GYMNASIUM PRACTICE. One period; from November 1 to May 1.

Prerequisites: Physical Education A11 and B13, or their equivalent.

$\frac{1}{2}$ hour.* A.

Assistant Professor Evans.

Forty minutes constitutes a period. B19, C121, C123, C125, or Swimming may be substituted for one period of out-door exercise. Hours and credits given for these courses may not be used in the requirements for graduation.

C133a, C133b. PLAY GROUND METHODS.

Both semesters. 2 hours each. F, IX; M, 1:15-4:15.

Assistant Professor Schott.

Laboratory fee, \$2.50 each.

*The half hour credit for these courses does not count toward the 126 credits required for graduation.

D134a, D134b. THEORY OF PHYSICAL EDUCATION. Kinesiology. Corrective Gymnastics. Theory of Gymnastic Teaching.

Both semesters. III.

Assistant Professor Evans.

PHYSICS

A1a, A1b. ELEMENTS OF PHYSICS. Designed for those having had no previous work in the subject.

Prerequisites: Elementary Algebra and Plane Geometry.

Both semesters. 4 hours. Class, IV; laboratory, T, 1:15-4:10.

Professor Hitchcock and Assistant Professor Taylor.

Laboratory fee, \$5.00 per semester.

B2a, B2b. GENERAL PHYSICS. A course more advanced than Physics A1a, meeting the Physics requirements of courses in medicine, chemistry and civil engineering.

Prerequisites: Algebra through Quadratics, Plane Geometry and Plane Trigonometry. Class, four hours a week; laboratory, one period a week.

Both semesters. 5 hours. Class, III and W, IX; laboratory, Th, 1:15-4:10.

Professor Hitchcock.

Laboratory fee, \$5.00 per semester.

B3a, B3b. MECHANICS OF SOLIDS AND FLUIDS, HEAT AND SOUND. Designed for those preparing for mechanical or electrical engineering.

Prerequisites: The equivalent of High School Physics. Mathematics through differential and integral calculus.

Both semesters.

Professor Hitchcock.

(Not given in 1920-1921.)

*The half hour credit for these courses does not count toward the 126 credits required for graduation.

C105a, C105b. MAGNETISM, ELECTRICITY AND LIGHT.

Both semesters.

Professor Hitchcock.

(Not given in 1920-1921.)

C109a, C109b. PHYSICAL MEASUREMENTS.

Both semesters. 2 hours each. A.

Professor Hitchcock.

Laboratory fee, \$8.00 each.

C111a, C111b. ADVANCED MAGNETISM AND ELECTRICITY.

Prerequisites: Physics B2 and Differential and Integral Calculus.

First semester. A.

Professor Hitchcock.

D113a, D113b. APPLIED MECHANICS. See Engineering D113.

PHYSIOLOGY

A1a, A1b. APPLIED PHYSIOLOGY AND HYGIENE.

Freshman year, both semesters. 1 hour each. Women, T or Th, VIII; Men, T or Th, VIII.

Assistant Professors Schott and Evans.

B11. PUBLIC HYGIENE.

Required of all Juniors, second semester. A.

Associate Professor Stoughton.

D13. PROBLEMS OF HEREDITY AND EUGENICS, AND RELATED QUESTIONS OF PERSONAL AND PUBLIC HYGIENE. Advanced course.

Required of all Seniors, first semester. A.

Associate Professor Stoughton and Assistant Professor Evans.

B3a, B3b. ANATOMY AND PHYSIOLOGY.

Class, two hours a week; laboratory, one exercise a week.

Both semesters. W, F, IX; laboratory, Th, 1:15-4:10.

Assistant Professor Schott.

Laboratory fee, \$3.00 each.

D105-D106. HISTOLOGY. See Zoology D105-D106.

D107-D108. EMBRYOLOGY. See Zoology D107-D108.

POLITICAL SCIENCE AND LAW

B1a, B1b. ELEMENTARY LAW. First semester, Blackstone; second semester, Contracts.

Both semesters. I.

Professor Neely.

B2a, B2b. AMERICAN GOVERNMENT.

Both semesters. VI.

Mr. Livingston.

B19. AMERICAN COLONIAL GOVERNMENT.

Intended to prepare students for the later courses in American Constitutional History and Comparative Constitutional History.

First semester. II.

Professor Neely.

C103. PLEADING.

First semester. VI.

Professor Neely.

C17. AMERICAN DIPLOMACY.

First semester. XI.

Professor Neely.

D104. EVIDENCE.

Second semester. VI.

Professor Neely.

D109a, D109b. COMPARATIVE CONSTITUTIONAL HISTORY.

Both semesters. IV.

Professor Neely.

D111a, D111b. AMERICAN CONSTITUTIONAL HISTORY.

Prerequisite: A course in American History.

Both semesters.

Professor Neely.

(Not given in 1920-1921.)

D118. INTERNATIONAL LAW. In this course a study is made of the principles and rules of law that have been adopted for the conduct of international affairs by consenting nations.

Second semester. XI.

Professor Neely.

PSYCHOLOGY

The requirements for a Major in Psychology consist of 24 semester hours of Psychology and Philosophy, and a thesis. The courses taken should include Experimental Psychology and History of Philosophy.

B1. ELEMENTS OF PSYCHOLOGY.

Required in all courses.

Either semester. First semester III, second semester V.

Professor Ewer.

B3a, B3b. PRINCIPLES OF PSYCHOLOGY.

Those who take this course fulfill the three-hour requirement in Psychology and get three hours in addition.

Both semesters. IV.

Professor Ewer.

C107. EDUCATIONAL PSYCHOLOGY.

Prerequisite: Psychology B1.

First semester. V.

Professor Ewer.

C108. APPLICATIONS OF PSYCHOLOGY.

Prerequisite: Psychology B1 or B3.

Second semester. III.

Professor Ewer.

C106. THE PSYCHOLOGY OF SUGGESTION.

Prerequisite: Psychology B1 or B3.

First semester. VI.

Professor Ewer.

D112. SOCIAL PSYCHOLOGY.

Second semester. VI.

Professor Ewer.

D117. MENTAL MEASUREMENTS.

First semester. III.

Professor Williams.

D118. EXPERIMENTAL PSYCHOLOGY. A laboratory course.

Second semester. III.

Professor Williams.

ROMANCE LANGUAGES

FRENCH

A1a, A1b. ELEMENTARY.

Both semesters. Five sections.

I, IV, VII, Miss Gaylord; II, VI, Mrs. Bissiri.

A2a, A2b. INTERMEDIATE.

Prerequisite: One year of high school or one semester of college French, or equivalent.

Both semesters. 2 hours each. M, F, III.

Professor Jones.

B3a, B3b. FRENCH NOVEL OF THE NINETEENTH CENTURY.

Prerequisite: French A1 and A2, or equivalent.

Both semesters. Five sections.

II, VI, Miss Gaylord; IV, V, XI, Mrs. Bissiri.

B4a, B4b. GRAMMATICAL ANALYSIS.

Prerequisite: French A1 or A2, or equivalent.

Both semesters. 2 hours each. W, F, III.

Mrs. Bissiri.

C105. CLASSIC DRAMA.

Prerequisite: French B3, or equivalent.

First semester. V.

Professor Jones.

C106. SEVENTEENTH CENTURY PROSE.

Prerequisite: French B3, or equivalent.

Second semester. V.

Professor Jones.

D109. LITERATURE OF THE EIGHTEENTH CENTURY.

Alternates with French D111.

Prerequisites: French C105 and C106.

First semester. I.

Professor Jones.

D110. ROMANTIC SCHOOL.

Alternates with French D112.

Prerequisites: French C105 and C106.

Second semester. I.

Professor Jones.

D111. LITERATURE OF THE RENAISSANCE.

Alternates with French D109.

Prerequisites: French C105 and C106.

First semester.

Professor Jones.

(Not given in 1920-1921.)

D112. RONSARD TO MALHERBE.

Alternates with French D110.

Prerequisites: French C105 and C106.

Second semester.

Professor Jones.

(Not given in 1920-1921.)

D219a, D219b. THE TEACHING OF FRENCH.

Both semesters. 2 hours each.

Professor Jones and Mrs. Bissiri.

(Not given in 1920-1921.)

SPANISH

A21a, A21b. ELEMENTARY.

Both semesters. Three sections.

II, IV, Miss Anderson; V, Assistant Professor Bissiri.

B23a, B23b. CONTEMPORARY SPANISH NOVEL.

Prerequisite: Spanish A21, or equivalent.

Both semesters. Three sections.

V, Miss Anderson; I, VI, Assistant Professor Bissiri.

B24a, B24b. COMPOSITION AND COMMERCIAL CORRESPONDENCE.

Prerequisite: Spanish A21, or equivalent.

Both semesters. 2 hours each. M, F, IX.

Miss Anderson.

C125. THE GOLDEN AGE OF SPANISH LITERATURE—
DRAMA.

Prerequisite: Spanish B23, or equivalent.

First semester. VII.

Professor Jones and Assistant Professor Bissiri.

C126. SPANISH PROSE OF THE SIXTEENTH AND SEVENTEENTH CENTURIES.

Prerequisite: Spanish B23, or equivalent.

Second semester. VII.

Professor Jones and Assistant Professor Bissiri.

D128a, D128b. AMERICA DEL SUR.

Prerequisite: Spanish C125 and C126.

Both semesters. IV.

Professor Jones.

D219a, D219b. THE TEACHING OF SPANISH.

Both semesters. 2 hours each. T, Th, VIII.

Professor Jones and Miss Anderson.

ITALIAN

B31a, B31b. ELEMENTARY.

Both semesters. XI.

Professor Jones.

C133. TRAGEDY AND DRAMA OF THE EIGHTEENTH CENTURY.

Prerequisite: Italian B31, or equivalent.

First semester; alternating with C135.

Assistant Professor Bissiri.

(Not given in 1920-1921.)

D134. IL CINQUECENTO.

Prerequisite: Italian B31, or equivalent.

Second semester; alternating with D136.

Assistant Professor Bissiri.

(Not given in 1920-1921.)

C135. BOCCACCIO AND PETRARCH.

Prerequisite: Italian B31, or equivalent.

First semester; alternating with C133. IV.

Assistant Professor Bissiri.

D136. DANTE.

Prerequisite: Italian B31, or equivalent.

Second semester; alternating with Italian D134. IV.

Assistant Professor Bissiri.

SECRETARIAL

A1a, A1b. STENOGRAPHY. Must be accompanied by Secretarial A2a, A2b, save for those who can use the typewriter.

Both semesters. 2 hours each. III.

Assistant Professor Thomson.

A2a, A2b. TYPEWRITING. No credit except as it accompanies Secretarial A1a, A1b, or A24a, A24b.

Both semesters. 1 hour each. Laboratory hours, A.

Assistant Professor Thomson.

Fee, \$7.50 each.

A24a, A24b. COMMERCIAL CORRESPONDENCE.

Both semesters. 2 hours each. T, S, VI.

Assistant Professor Thomson.

B3a, B3b. FILING AND REFERENCE.

Both semesters. 1 hour each. F, IX.

Miss Ewing.

Fee, \$7.50 each.

B4a, B4b. ADVANCED STENOGRAPHY.

Both semesters. 2 hours each. A.

Assistant Professor Thomson.

ZOOLOGY

B11. GENERAL ZOOLOGY.

Prerequisites: Biology A1 and A2, or equivalents.

Class, two hours a week; laboratory, one exercise a week.

First semester. 3 hours. Class, T, Th, II; laboratory, M, 1:15-4:10.

Professor Hilton.

Laboratory fee, \$6.00.

B12. GENERAL ZOOLOGY. A continuation of Zoology B11. Vertebrates.

Prerequisites: Physiology B3 or Zoology B11.

Class, two hours a week; laboratory, one period.

Second semester. Class, T, Th, II; laboratory, M, 1:15-4:10.

Professor Hilton.

Laboratory fee, \$6.00.

B18. ENTOMOLOGY.

Prerequisite: Biology A1, or Physiology B3, or Zoology B11.

Class, two hours a week; laboratory, one exercise a week.

Second semester. Class, M, W, VII; laboratory, T or Th, 1:15-4:10.

Professor Hilton.

Laboratory fee, \$5.00.

C131. SYSTEMATIC INVERTEBRATE ZOOLOGY.

Prerequisite: Zoology B11 or B18.

Lecture, one hour a week; laboratory and field work, two periods a week, first semester.

Professor Hilton.

Laboratory fee, \$5.00.

(Not given in 1920-1921.)

C132. SYSTEMATIC VERTEBRATE ZOOLOGY.

Prerequisite: Zoology B11.

Lecture, one hour a week; field and laboratory work, two periods a week, second semester.

Professor Hilton.

Laboratory fee, \$3.00.

(Not given in 1920-1921.)

C113. ADVANCED ZOOLOGY.

Prerequisite: Zoology B11 or B18.

Either semester. 2 or 3 hours. A.

Professor Hilton.

Laboratory fee, \$2.00 per hour.

D133. COMPARATIVE NEUROLOGY. Invertebrates.

Prerequisites: Zoology B11 and B12, or Physiology B3 and B4.

Lecture, one hour a week; laboratory, two periods a week, first semester. A.

Professor Hilton.

Laboratory fee, \$6.00.

D115. ADVANCED ZOOLOGY. A continuation of Zoology C113.

Prerequisite: Zoology C113. Field work and laboratory.

Either semester. A.

Professor Hilton.

Laboratory fee, \$2.00 per hour.

D105. HISTOLOGY. Vertebrate.

Prerequisite: Physiology B3 and B4, or Zoology B11 and B12.

First semester. A.

Professor Hilton.

Laboratory fee, \$8.00.

D106. HISTOLOGY. A continuation of D105.

Prerequisite: Zoology D105.

Second semester. A.

Professor Hilton.

Laboratory fee, \$7.00.

D107. EMBRYOLOGY.

Prerequisite: Physiology B3, or Zoology B11.

First semester.

Professor Hilton.

Laboratory fee, \$8.00.

(Not given in 1920-1921.)

D108. EMBRYOLOGY. A continuation of D107.

Prerequisite: Zoology D107.

Second semester.

Professor Hilton.

Laboratory fee, \$7.00.

(Not given in 1920-1921.)

C119. SPECIAL ENTOMOLOGY.

Prerequisites: Zoology B11 and B18.

Either semester. 2 or 3 hours each. A.

Professor Hilton.

Laboratory fee, \$2.00 per hour.

D120. ADVANCED ENTOMOLOGY. A continuation of Zoology C119.

Prerequisite: Zoology C119.

Either semester. 2 or 3 hours each. A.

Professor Hilton.

Laboratory fee, \$2.00 per hour.

D234. NEUROLOGY. Vertebrates.

Prerequisite: Zoology D133.

Either semester. A.

Professor Hilton.

Laboratory fee, \$6.00.

D215. ZOOLOGICAL RESEARCH.

Either semester. 2 to 5 hours. A.

Professor Hilton.

Laboratory fee, \$2.00 per hour.

D219. ENTOMOLOGICAL RESEARCH.

Either semester. 2 to 5 hours. A.

Professor Hilton.

Laboratory fee, \$2.00 per hour.

ADMINISTRATION

REGISTRATION

All students are required to register on one of the regularly announced days of registration preceding the opening of the class work of each semester. A fee of two dollars is charged for later registration and a payment of one dollar for any change in the list of subjects chosen. This latter payment is remitted in the case of new students registering for the first time, provided the changes are made within a week of the opening day of the registration period.

Students are admitted only to those courses for which they are formally registered.

MATRICULATION

Matriculation implies the meeting of all entrance requirements and the proven ability to carry college work. To this end the standing of all new students is provisional until after they have been in residence for one semester. At that time those are matriculated who have shown themselves in accord with the spirit of the College, who have done a satisfactory quality of work during their semester of residence and whose entrance units are acceptable.

ELECTION OF COURSES

On or before the first Saturday in January after the Christmas recess, and the first Saturday in June, all resident students must fill out a schedule listing their choice of subjects for the following semester.

Changes from this schedule may be made upon the payment of a fee of one dollar. Failure to prepare such schedule at the appointed time subjects the student to a fee

of two dollars. Students may not select less than twelve hours of work without the special permission of the Classification Committee.

PUBLIC ASSEMBLIES

Devotional exercises conducted ordinarily by the President or some member of the faculty, or by an invited guest, are held in the chapel Monday, Wednesday and Friday mornings, and all students are expected to be present.

The Christian Associations meet at the chapel hour on Tuesday.

On alternate Thursday mornings the regular and called meetings of the Associated Students are held from time to time.

Attendance upon the Sunday morning service in the Claremont Church is expected except in cases where permission is given to attend services elsewhere. Such permission will be granted on request.

REPORTS

A record of the scholarship and deportment of each student is kept, and deficient students are reported to the Registrar. Special reports are made at or near the Thanksgiving and Spring recesses; notification is sent to the parents of any students reported as deficient then, or at the end of the semester. Grades will be sent at any time upon request of parents.

The grade of scholarship is determined by the daily work of the class-room supplemented by frequent test reviews and by final examinations.

The aim is to encourage faithfulness and regularity in daily work rather than spasmodic effort to meet some single test.

PHYSICAL ATTENTION

The physical care of students is a matter of special concern

to the College and the advantages of unusual attention and opportunity are offered. The climate of Southern California offers an out-of-door life the year around. Oversight is given to open-air athletics in all seasons. A regular physician is on the faculty of the College, under whose direction every student on entering has a physical examination. Regular work in physical education is prescribed throughout the four years, and courses in Physiology and Hygiene are given. A large swimming pool is provided, access to which is free to all students, subject only to a semi-annual physical examination. The medical advice of the College physician is ordinarily available free of charge to all students, subject to certain conditions of hours and location of residence, the College meeting these bills; providing that all nursing, surgical dressing, and medicines are at the expense of the ill or injured. *The College, however, reserves the right to discontinue this individual medical service at any time without previous notice.* As a natural result of all this attention the health of the College is such as to give special assurance to all considering attendance at Pomona.

GENERAL REQUIREMENTS

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all college appointments. Any who fall below grade in scholarship, or who for any reason do not prove desirable members of the student body, may be dismissed without specific charges.

It is assumed that, as far as possible, students will room at the College residence halls and board at the College commons. Any other arrangement for room or board must have the approval of the proper Dean. Lists of approved rooms for men are kept at the Business Office and for women at

the office of the Dean of Women. All rooms in the College residence halls are rented for the College year. Unless there is a written agreement to the contrary, it is assumed that rooms in private homes are rented for one semester. Change of rooms is made only by permission of the Deans.

To avoid misunderstanding between students and householders, it is advised that agreements regarding rooms be put in written form.

It is urgently pointed out to both students and parents that the value of a college education consists in no small degree in the fullest participation in the college atmosphere and life. It is important, therefore, that all absence through the college year should be avoided. Some of the most important of the college values are lost by absences on Saturday and Sunday, on which days are centered particular and vital phases of the common life, and it is therefore urged that over-Sunday visits at home or elsewhere be avoided.

The use of tobacco is discouraged at all times.

Detailed information regarding college requirements is found in the Manual of Procedure, which should be secured by all students at the office of the Registrar.

EXPENSES

ROOMS IN COLLEGE RESIDENCE HALLS. A deposit of \$10.00 is necessary to secure a room and should accompany the application. This amount is retained as a breakage fee, from which deductions will be made for individual and communal damages to the building, the balance being returned at the end of the year. Rooms are assigned to new students in order of application.

The charge for rent does not include the use of the halls during the Christmas and Spring vacations when the halls

are closed. The residence halls are opened the Saturday before the opening of the college year and closed the second day after commencement.

Each room is provided with the necessary furnishings, including rug for the floor; the only articles to be furnished by the student are towels, and linen and covers for a single bed.

The College reserves the right to dismiss from the dormitory without rebate any student who becomes a disturbing or undesirable occupant.

SMILEY HALL. This dormitory for men has both single rooms and suites of three rooms accommodating two students. As the rooms are equally desirable, each occupant pays \$80.00 for the college year.

RESIDENCE HALLS FOR WOMEN. The new hall which is just being completed has both single and double rooms, as well as suites for two or three students. The prices vary according to location and number of occupants. Single rooms are \$125 to \$150 per year; double rooms \$100 to \$150 for each occupant.

The cottages have double rooms, each student paying from seventy to one hundred dollars per year, according to the location of the room.

BOARD. In the College Commons provision is made for the boarding of students under the direct management of the College. The rates are the lowest consistent with good quality of food and service, the approximate cost for 1920-1921 being \$265.00.

A dining-room seating approximately one hundred students is used as a Cafeteria. The food is of the same quality as that of the Commons. Because of the less expensive method of serving, board for the year 1920-1921 costs about \$240.00.

Men or women wishing to board at other approved places than the Commons or the Cafeteria may do so by permission of the proper Dean, but such permission is not normally given to those living in the College buildings.

SUMMARY OF EXPENSES. The necessary expense for the College year, exclusive of fees for special courses and expenses which are purely personal, varies from \$450 to \$600. Bills are due each semester in advance, and must be paid upon registration. If parents desire bills to be sent home, written request should be made before the beginning of a semester.

No student will be retained in the institution or given honorable dismissal whose bills are not paid or arranged for.

TUITION

All tuition bills must be paid at the beginning of each semester. Until this has been done cards entitling the student to admission to classes will not be issued.

GENERAL CHARGES

Regular tuition, including all general privileges, Music and Lecture Course Ticket, Gymnasium and Library privileges, etc., per semester.....	\$75.00
Tuition for students carrying less than twelve hours of work, for each such hour, per semester, exclusive of above general privileges	6.50

CHARGES IN MUSIC AND ART¹

For those paying regular tuition:

For each half-hour private lesson in music per week, per semester	\$35.00
For each two-hour class lesson per week in art, per semester..	18.00
For those carrying less than twelve hours of college work, exclusive of work in music or art:	
For one half-hour private lesson in music per week, per	

¹Students may register for Applied Music at any time. Such students, if they enter during the semester, should consult the Registrar as to charges.

semester	50.00
For two half-hour private lessons in music per week, per semester	85.00
For each half-hour private lesson in excess of two, per semester	35.00
For each two-hour class lesson in art per week, per semester, for the first lesson.....	25.00
For each additional lesson.....	18.00
For juveniles under high school age, and not given college privileges:	
For one half-hour private lesson in piano per week, per semester	25.00
For two half-hour private lessons in piano per week, per semester	47.50
Sketch class, per semester.....	1.00

FEES

Graduation fee, \$10.00.

Physics, \$5.00; Bacteriology, \$5.00; Chemistry, deposit for breakage, \$7.50.

Laboratory fees range from \$4.00 to \$15.00. The exact fee for a given course is stated in connection with the description of that course under Departments of Instruction; in advanced courses only does it exceed \$10.00.

Practice fees for the use of College pianos and organs:

Piano

One-half hour daily, per semester (voice students).....	\$ 3.50
One hour daily, per semester.....	6.00
Two hours daily, per semester.....	12.00
Three hours daily, per semester.....	18.00

Grand Piano

One hour daily, per semester.....	\$ 9.00
Additional hours at same rate.	

Great Organ in Bridges Hall

One hour weekly, per semester.....	\$ 7.50
More or less time at same rate.	

Practice Organ

Two hours weekly, per semester.....	\$ 6.00
Three hours weekly, per semester.....	8.25
Four hours weekly, per semester.....	10.50
Five hours weekly, per semester.....	12.75
Six hours weekly, per semester.....	15.00

Violin

Room without piano, one hour daily, per semester.....	\$ 1.50
Additional hours at same rate.	

Pedal Organ

One hour daily, per semester.....	\$ 9.00
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Pedal Piano

One-half the rate for other pianos.

RETURN OF TUITION

After the first week of the semester there is no refunding of any part of the tuition either for courses dropped or for failure to complete a semester's residence, except that one-half of the tuition is refunded to any leaving College before the middle of any semester on account of illness.

HONORS AND PRIZES

COMMENCEMENT EXERCISES

The honor of speaking on Commencement Day is awarded three members of the graduating class who have distinguished themselves in scholarship and who possess literary and oratorical ability.

THE PHI BETA KAPPA SOCIETY

Upperclassmen "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship," are eligible to membership in the Phi Beta Kappa Society.

FINAL HONORS AT GRADUATION

Students who average 50 per cent more credits than hours are graduated "cum laude." Those averaging 75 per cent more credits than hours are graduated "magna cum laude." Should any in the latter group stand out for their significant scholarship in the judgment of a representative faculty committee, they are graduated "summa cum laude."

SCHOLARSHIP HONORS

Honors for scholarly attainment are awarded at the end of each semester to matriculated students, candidates for the Bachelor of Arts degree.

These honors are of three classes, High Honors, General Honors and Departmental Honors. The grades in Physical Education and Applied Military Science are not considered in the award of these honors, save that they must be at least passing.

High honors are given at the end of each semester to

students who average 85 per cent more credits than the hours for which they were registered.

General Honors are given at the end of each semester to students who average 70 per cent more credits than the hours for which they were registered.

Departmental Honors are awarded by heads of departments in consideration of the quality of work done by students in the department during the semester concerned. In the interest of maintaining the full value of these honors, the departments shall not be expected to award them in any considerable numbers, the normal limit of 5 per cent of the enrollment being regarded as the one to be followed, save as the small enrollment in the department, or an exceptional quality of work, warrants deviation.

Honors are granted in no case where a student has failed in any subject.

PRIZES

The following prizes are offered for proficiency in the work of the several departments:

THE LLEWELLYN BIXBY MATHEMATICS PRIZE. A prize for excellence in Analytic Geometry and Calculus; open to all students complying with specified conditions. A prize of ten dollars is given by Mr. Llewellyn Bixby.

THE DOLE PRIZES. A prize debate, open to the Sophomore class, upon some subject selected by the faculty, is arranged for the close of the second semester. First and second prizes of ten and five dollars respectively, established by the late Mr. J. H. Dole, in memory of his brother, Mr. W. B. Dole, are endowed by Mr. J. Albert Dole and Mrs. A. M. Dole.

THE HAGER PRIZES. Prizes for best three essays on a foreign missionary subject, open to all students. Prizes of ten dollars each are endowed by Mr. and Mrs. C. R. Hager.

THE KINNEY PRIZES. A prize declamation contest, open to the members of the Freshman class, occurs toward the end of the first

semester. First and second prizes of ten and five dollars, respectively, are given by Mrs. H. N. Kinney.

THE LORBEER PRIZES. Prizes for the best essay on the subject, "How to Keep Well"; open to all who take the course in Anatomy and Physiology. First and second prizes of fifteen and ten dollars, respectively, are given by Dr. Thomas L. Lorbeer, '03.

THE MONCRIEFF ASTRONOMY PRIZE. A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of ten dollars is given by Miss Flossie C. Moncrieff, '11.

THE MUDGE LATIN PRIZES. Prizes for excellence in Latin offered to Sophomores completing Latin D14. First and second prizes of ten and five dollars respectively are endowed by friends of the College.

THE VAILE PRIZES. Prizes for the best essay or oration on the general subject of Agriculture in Southern California; open to the Junior and Senior classes. First and second prizes of fifteen and ten dollars, respectively, are endowed by Mr. Charles S. Vaile.

SCHOLARSHIPS AND BENEFICIARY AID

The income of certain funds is used toward paying the tuition fees of students who are in pecuniary need, and, by authorization of the trustees, is distributed annually through a committee of the faculty. Scholarship aid is given only to students who are or intend to become candidates for a degree from Pomona College, who maintain a high standard of honor, who are economical in their habits, who do not use tobacco, who are regular in their attendance upon college exercises, and whose scholarship meets the following conditions: The earning in each semester of the Freshman year of at least twelve credits; in each subsequent semester of at least fifteen credits.

Applicants for aid who have not yet entered college should forward to the Chairman of the Committee on Scholarships, a formal application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. They should also send a certified statement of their scholastic record. All applications for aid must be renewed annually on or before May first.

Aid may be withdrawn at any time from students who prove not to have conformed to the conditions, and is permanently withdrawn after the second forfeiture due to low standing or unsatisfactory deportment.

Recipients of scholarship aid may be called upon to assist the College in ways that do not interfere with their studies.

Awards are made from the income of the following funds:

THE FRANCIS BANCROFT MEMORIAL FUND, \$1,500. Given by Mrs. James T. Ford of Los Angeles, California, in memory of her father.

A Fund of \$2,500. Given by L. H. Barrows.

THE H. G. BILLINGS MEMORIAL SCHOLARSHIP, \$1,000. Given by Mrs. E. A. Billings of Los Angeles, California, in memory of her husband.

THE MABEL S. BRIDGES MEMORIAL SCHOLARSHIP, \$3,500. Given by Mr. and Mrs. A. S. Bridges of San Diego, California, in memory of their daughter. Available for women.

THE BRISTOL MEMORIAL FUND, \$400. A fund raised as a memorial to the Reverend Sherlock Bristol.

THE HENRY HERBERT BROWN SCHOLARSHIP FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of her son.

A Fund of \$365.78. Given by the Class of 1918 towards the founding of a scholarship.

THE AGNES K. CRAWFORD MEMORIAL FUND, \$1,000. Given by David R. Crawford and William Crawford of Pomona, California, in memory of their mother.

A Fund of \$2,600. Given by Mary E. Elwood of Redlands, California.

A Fund of \$2,500. Given by Rev. James T. Ford of Los Angeles, California.

A Fund of \$1,000. Given by Mrs. Margaret Fowler of Pasadena, California.

A General Fund of \$475.

A Fund of \$5,000. Given by Charles E. Harwood, LL.D., of Upland.

A Fund of \$5,000. Given by Alfred P. Harwood of Upland.

THE THOMAS F. HOWARD MEMORIAL SCHOLARSHIP, \$2,000. Given by Dr. and Mrs. H. G. Brainerd of Los Angeles, California, in memory of Mrs. Brainerd's father.

A Fund of \$2,000. Given by Henry L. Kuns.

A Fund of \$1,800. Given by Miss Jean Loomis, '97, of Nanking, China.

THE HOWARD J. MILLS FUND, \$3,000. Given by Mrs. Howard J. Mills, of Los Angeles, California, in memory of her husband.

THE ONTARIO CONGREGATIONAL CHURCH FUND, \$161.50. Given by the Ontario Congregational Church towards the founding of a scholarship.

A Fund of \$5,000. Given by Mrs. Loraine H. Page of Pomona, California. (\$3,000 of this may at some time be used for other purposes.)

THE ARTHUR WARREN PHELPS MEMORIAL SCHOLARSHIP, \$2,000. Given by Mrs. C. S. and Mr. C. A. Phelps of Claremont in memory of their son and brother.

THE LYDIA PHELPS MEMORIAL FUND, \$4,000. Given by Hiram E. Phelps of Ontario, California, in memory of his wife.

THE PILGRIM CHURCH OF POMONA FUND, \$654.05. Given by the Pilgrim Congregational Church of Pomona towards the founding of a scholarship.

THE JOHN D. POTTER MEMORIAL FUND, \$2,000. Given by Mrs. S. T. Potter of Westboro, Massachusetts, in memory of her husband.

A Fund of \$1,800. Given by Dr. Anna H. Searing of Escondido, California.

THE CLYDE H. SHIELDS SCHOLARSHIP, \$200 (to be increased). Given by R. P. Shields of San Diego in memory of his oldest son, who was drowned in 1894, when about twenty-one years of age.

A Fund of \$2,000. Given by Miss Susan E. Thatcher of San Diego.

A Fund of \$1,000. Given by Mrs. Maria T. Wardwell of Plymouth, Connecticut.

A Fund of \$2,000. Given by Henry S. West of Los Angeles.

The College also administers a loan fund, established by George H. DeKay, Jr., in memory of his brother Frelin Campbell DeKay. By means of this fund, it is possible to co-operate in a moderate way, and temporarily, with the pressing need of students. This fund has been of such important service as to indicate the great need for the

increase of such resources, which in the hour of special emergency may often save a student to a college career.

SELF-SUPPORT

A committee of the faculty endeavors to find employment for students needing to earn a part of their expenses. Many are thus helping themselves by various forms of labor such as janitor work, waiting on tables at the Commons, general house work, gardening and the like. The most desirable positions are in general secured by upperclassmen who have proven themselves good workers and good students, and those coming to the College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in any case should come prepared to pay all bills for at least one semester. Their record during this semester will be a large factor in deciding what opportunities for self-help will be open to them. Applications for aid in securing employment should be addressed to the Chairman of the Committee on Student Aid and Labor.

BUILDINGS AND EQUIPMENT

The College grounds consist of about one hundred acres, of which sixty are included in Blanchard Park, about ten in Alumni Field, and the remainder in the campus proper.

There are sixteen buildings on the campus, heated from a central heating plant.

The Mary L. Sumner Hall, named in memory of the wife of Professor Charles B. Sumner, is a dormitory affording accommodations for seventy women.

Holmes Hall, a memorial of Cyrus W. Holmes, Jr., of Monson, Massachusetts, reconstructed in 1916 in conformity with more modern plans for buildings and campus, is devoted mainly to chapel, recitation rooms, and various offices of administration.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons, contains the museum, and the laboratories and lecture rooms of the departments of chemistry, botany, physics and geology. In this building, too, is the Business Office.

The Library, the gift of Mr. Andrew Carnegie, is an imposing structure, exceptionally well adapted to the purposes for which it was built.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, is designed throughout to be of service to the student in the direct study of the stars.

The Albert K. Smiley Hall is the dormitory for men. It has both single rooms and suites of three rooms, affording accommodations for eighty students. The dormitory has all modern conveniences and is completely furnished.

The College is now in the process of constructing large and adequate dormitories for women. These dormitories are now partly occupied, and in the next few months ac-

commodations will be completed for about 200 women. The College also owns several cottages, in which like accommodations can be secured. These facilities have been made possible by large and generous gifts by friends of the College whose names they will ultimately bear. All these dormitories are equipped with modern conveniences, including electric lights, steam heat, baths, and laundries furnished with stationary tubs and electric irons for the use of roomers.

Rembrandt Hall, the first section of the Art Building, is devoted chiefly to the work of the Department of Art. The upper floor contains studio and work rooms; the lower floor a convenient auditorium of moderate size for exhibits and assemblies.

The Mabel S. Bridges Hall of Music, the gift of Mr. and Mrs. Appleton S. Bridges, of San Diego, offers opportunities for the study of music unexcelled in Southern California.

The Gymnasium, comprising three commodious structures, affords ample equipment for physical training and includes a large swimming pool.

The Claremont Inn has, besides two large student dining rooms, accommodations for eighty guests.

The Open-Air Theater, built to take advantage of the natural setting of Blanchard Park, though uncompleted, has at present a seating capacity of over 4000.

The Harwood Hall of Botany, the gift of Mr. A. P. Harwood, of Upland, erected in the summer of 1915, contains lecture rooms and laboratories for the use of the Department of Botany. Adjoining it is the Agricultural and Botanical Laboratory, consisting of a greenhouse, a lath house and a central classroom.

The Marine Laboratory, located at Laguna Beach, has nine private rooms for special workers and two general laboratories, as well as storerooms, work rooms and aquarium room.

Various smaller buildings add to the completeness of the College plant.

THE LIBRARY

The College possesses the following library collections in addition to the main library: The Cook-Baker Biological Library, the Astronomical Library, the New England Collection, the Mason California Collection, and the Viola Minor Westergaard Art Collection.

The main library and the New England and Mason California Collections are housed in the Carnegie Library Building, the Cook-Baker Library (Zoology section) in Pearsons Hall of Science, and (Botany section) in Harwood Hall, the Astronomical Library in the F. P. Brackett Observatory, and the Westergaard Art Collection in Rembrandt Hall.

The main library, of 36,000 books and 24,000 pamphlets, has been carefully selected, and represents a working library of exceptional value.

The library is a depository for the publications of the Carnegie Institution of Washington, and for the United States Government documents. It is liberally supplied with technical, scholastic and news periodicals.

DEPARTMENTAL ORGANIZATIONS AND CLUBS

THE POMONA COLLEGE Glee Club, the Pomona College Women's Glee Club, the Pomona College Orchestra, the Amphion Society, and the Pomona College Band are organizations under the general direction of the Department of Music.

THE REMBRANDT CLUB is an organization of students and members of the community which meets once a month for art study, programs on art subjects, and social intercourse.

THE ASTRONOMICAL SOCIETY aims to help the observatory in its work, in building up its library and in the issuing of its publications. The associate membership is drawn from the alumni and friends of the College, while the active membership includes the students of astronomy together with members of the faculty and resident graduates.

THE BIOLOGICAL SEMINAR. The aim of the Biological Seminar is chiefly the review and discussion of recent and important researches as published in the biological journals. Membership is limited to students of the Junior and Senior classes chosen for excellent scholarship and marked interest in the work of the department.

THE MATHEMATICAL SOCIETY. The Society of Pure and Applied Mathematics meets every month for presentation and discussion of results of study and investigation in the physical sciences and mathematics. It is open to advanced students who are interested in these subjects and who agree to take an active part in its work.

THE LITERATURE SEMINAR. The purpose of the Literature Seminar is the presentation from a graduate or professional point of view of those masterpieces of literature which

have dominated the content and form of other literature. Two sections devoted respectively to foreign language and to English have recently been formed.

THE HISTORY SEMINAR consists of a student group organized to study special phases of contemporary history.

LE CERCLE FRANCAIS, composed of students making a specialty of the French language, meets fortnightly for practice in French conversation, presentation of papers and discussion of topics relating to the various aspects of French life and literature.

EL CIRCULO ESPANOL, composed of students making a specialty of Spanish, meets fortnightly for practice in Spanish conversation and the presentation of appropriate papers in the language, bearing upon the literature and life of the Spanish world.

STUDENT ACTIVITIES

THE ASSOCIATED STUDENTS. This association harmonizes all student activities. Its officers are chosen by the student body from their own number. All important questions are considered by its executive committee, which is composed of those prominent in such varied lines as athletics, oratory, and the editorship of the Student Life. This body has charge of inter-collegiate as well as inter-class relations.

WOMEN'S ORGANIZATION. The women of the student body form a voluntary organization, electing their own officers and committees and holding regular meetings. This organization considers and promotes the social relations of the women.

CHRISTIAN ASSOCIATIONS. Branches of the Young Men's Christian Association and the Young Women's Christian Association are well organized and doing effective work. Representation in the inter-collegiate and state conventions and the visits of active workers from outside serve to maintain interest in the work both at home and abroad. Through the co-operation of the associations and the College there have been established, as a part of the curriculum, courses in Bible study adapted to all classes of students and conducted by members of the faculty.

THE POMONA COLLEGE LITERARY SOCIETY, composed of both men and women, meets every two weeks. The work is varied in character, covering all literary lines.

THE POMONA COLLEGE DEBATING CLUB is composed of men. It meets every two weeks for prepared and impromptu debates on the live issues of the day.

THE ALPHA KAPPA is a society for women, giving drill in debates and familiarity with important current topics.

THE POMONA COLLEGE LYCEUM, composed of men, is also a debating club, and meets bi-weekly.

THE AREOPAGUS is composed of men. The object of the society is to promote efficiency in public speaking, debate, and parliamentary drill. Meetings are held every two weeks.

THE DELTA LAMBDA is a debating society for women, meeting bi-weekly.

THE MASQUERS is an organization of students, whose purpose is the study and presentation of plays and the general promotion of the dramatic enterprises of the undergraduate body.

ATHLETICS. The direction and financial management of athletics rest with the head of the Department of Physical Education, who has associated with him as an advisory body the Athletics Council, composed of three members of the faculty and three students. Under the general manager there is a student manager for each sport.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds unsurpassed in the Southwest in equipment and beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus, and athletic exercises and field sports are encouraged by the officers of the institution.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to all students. An invariable condition to the use of the pool is a semi-annual medical examination.

Students are required to maintain a certain standard of excellence in all their studies in order to represent the College on any of its athletic teams or other organizations coming before the public.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published bi-monthly. These include:

The Annual Directory of Faculty and Students.

The Annual Catalog.

The Annual Register of Alumni.

The Annual Register of Faculty and Students.

The Annual Announcement of Courses.

Alumni and departmental publications are:

The Pomona College Quarterly Magazine, devoted to the interests of the College and Alumni.

The Journal of Entomology and Zoology, published under the auspices of the Department of Zoology.

The Publication of the Astronomical Society of Pomona College, published under the auspices of the Department of Astronomy.

The College Letter is issued by the College for the information of the alumni.

STUDENT PUBLICATIONS

The *Student Life* is published semi-weekly by the student body and is devoted to current affairs.

The *Scribbler* is a literary magazine issued four times a year.

The *Metate* is published each year by the Junior class, and contains material appropriate to a college annual.

The *Association Hand Book*, which contains material of value, especially to new students, is issued at the beginning of the year by the Christian Associations.

BUREAU OF APPOINTMENTS

A Bureau of Appointments is conducted in connection with the office of the Secretary of the Faculty for the benefit of members of the College who desire to teach after graduation. The purpose of the Bureau is to maintain a list of available positions and to recommend from the applicants registered those who are qualified for specific positions.

An opportunity is also offered graduates of the College who are already engaged in teaching, to register their present positions and to indicate whether they desire a change, and if so, under what conditions. An effort is made to further the desires of graduates so far as made known. The services of the Bureau are entirely gratuitous. Communications should be addressed to Professor M. E. Churchill, Secretary of the Faculty.

SUMMARY OF STUDENTS

NOVEMBER, 1920

Graduate students	16
Seniors	119
Juniors	152
Sophomores	218
Freshmen	219
Specials	9
Music and Art Specials.....	9
Total Enrollment	742

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